

Multiple Dwelling Unit (MDU) *Solutions*

CONDOMINIUMS, APARTMENTS AND DORMITORIES





Multiple Dwelling Unit (MDU) Solutions

Welcome to Graybar's first catalog directed solely to the multi-dwelling unit (MDU) market space. We define this as residential buildings with four or more tenant units. Condominiums, apartments and dormitories primarily fall into this category. Hotels and commercial multi-tenant projects should also be included here.

As I travel throughout the United States, I am amazed at the activity in our nation's cities. Our cities' urban centers are buzzing with activity. We are revitalizing and converting historic old warehouses and manufacturing buildings into upscale housing. What was once an eyesore of abandoned commercial buildings is now a new, active and vibrant community of housing units and retail businesses. Construction cranes dot the city landscape signaling hundreds of new residential living spaces in the form of high-rise buildings.

With the cost of energy soaring, it is unlikely this trend will stop any time soon. People are making decisions about living closer to where they work. They want to be within walking distance or close proximity to public transportation. Young and old, this trend crosses all age demographics.

As you look through the catalog you will notice the many disciplines of building design and construction within Graybar's scope. The book leads with voice, data and video tenant administration solutions. As you dig deeper, you will find broadband delivery, power, power metering, lighting, notification and security solutions. All of these solutions and more are available from a single source, Graybar.

Our service capabilities are unmatched in the industry. This might be as simple as connecting with a knowledgeable person when you call or complex material management service such as: customized local delivery services on our trucks, staging materials, kitting, wire services or many on-site services. Our primary goal is to help you take cost out of your construction project and deliver the highest quality, most technologically advanced solutions available.

Call us at 1-800-GRAYBAR or visit us on the web at www.graybar.com. We want to help you with your next MDU project.

Karl Griffith, RCDD
Director, Enterprise Market

Voice, Data and Video Administration

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Uniprise Mixed-Use Network Solutions

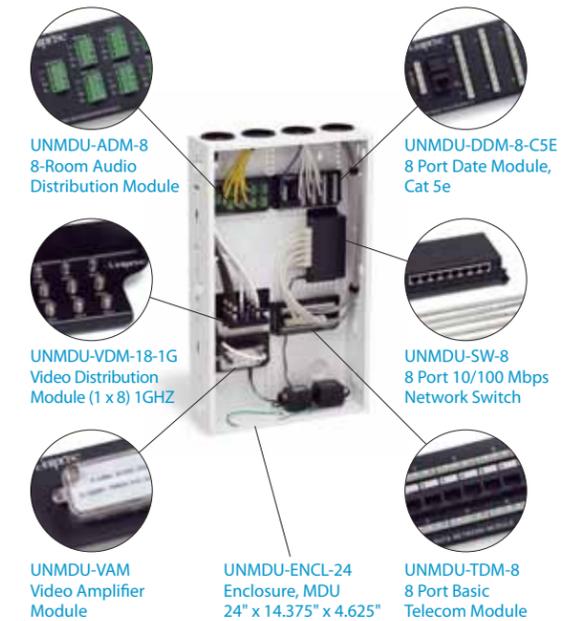
Voice, Data and Video Administration

Downtown landscapes are changing to incorporate entire communities of high-rise condominiums that offer a full range of services, including home office connections and large common areas that offer a variety of on-site retail outlets.

In-home networking now means more than simple access to the Internet. Homeowners demand multiple access points, remote audio/visual entertainment controls, online access to pay utility bills, remote monitoring of home conditions and many other services. These applications provide convenience for residents, and also require flexibility and performance in the network infrastructure.

Uniprise® mixed-use network solutions are designed to create a fully integrated network environment that supports all current and emerging communication and video entertainment applications.

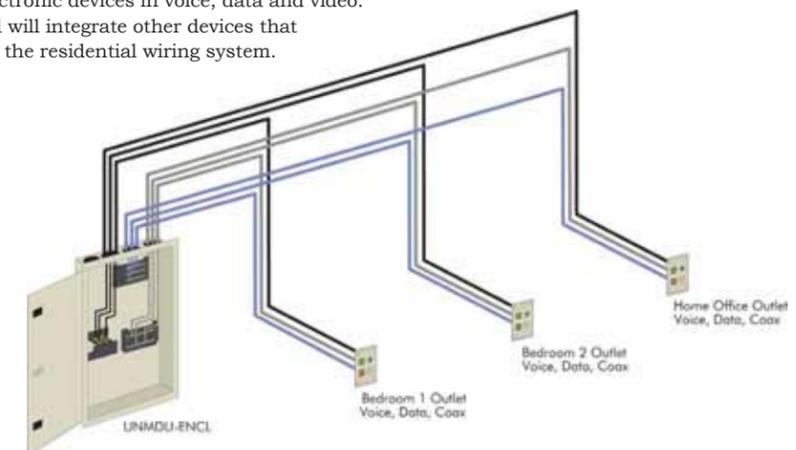
As the needs of the mixed-use market grow and new applications are added, the network must provide easy-to-use, expandable, high-quality performance. Uniprise mixed-use network solutions from CommScope® make it possible to implement a structured cabling system that is simple, affordable and ensures quality performance for all your mixed-use telecommunications needs.



TIA-570-B – Residential Telecommunications Standard

The Telecommunications Industry Association (TIA) is currently updating TIA-570-B-2004, the "Residential Telecommunications – Infrastructure Standard" to incorporate more information and specifications for cabling, installation, termination and testing. The recommendations in TIA-570-B specify the grades of cabling for single-dwelling and multi-family residences. The cabling specifications in this standard include support for consumer electronic devices in voice, data and video.

Revisions to the standard will integrate other devices that have become standard in the residential wiring system.





Uniprise Mixed-Use Network Solutions

Voice, Data and Video Administration

Voice, Data
and Video
Administration

Mixed-Use Application
Single-Family Dwelling
UltraHome® Cables

Mixed-Use Application

Coaxial and UTP audio cables and multimedia connectors provide superior quality home theater experience.

Coaxial cable and connectors assist in maintaining reliable cable/satellite broadcasts throughout the entire residence.



UTP/coaxial cables and distributed voice and data outlets allow convenient access to Internet and telephone for all units.

Coaxial, UTP and fiber optic cables provide secure connections within the main distribution facility, including the central security office and the equipment/telecommunications room.

Coaxial and UTP cables in addition to fiber optic cables and connectors allow quality CCTV and security/surveillance transmissions.

Coaxial, UTP and fiber optic cables provide necessary support for the voice/data network and wireless access in the retail commercial space.

Single-Family Dwelling

Voice/data, video and security networks are distributed from the central communications enclosure.



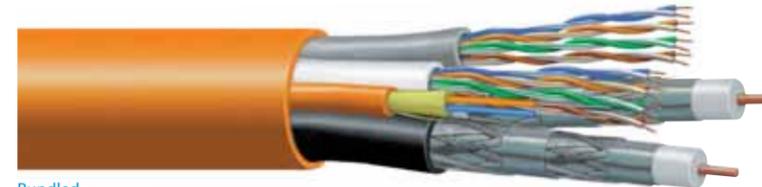
Coaxial cable and connectors provide superior quality and performance for cable/satellite broadcasts or broadband Internet connection.

Coaxial and UTP audio cables and multimedia connectors help to maintain optimum performance in the home theater.

UTP cables and distributed voice and data outlets provide reliable Internet and telephone connections.

UltraHome® Cables

When it comes to residential cabling, look to CommScope to provide the solution. Our UltraHome® cables meet the needs of voice, data and video applications in one easy-to-install product. The UltraHome family consists of coaxial cable, Category 5e unshielded twisted pair and multimode fiber in single, Siamese and bundled configurations – all designed for delivering true multimedia inside the home.



Bundled

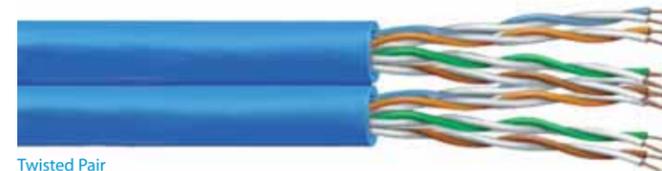
Description	Mfg. Part No.	Graybar ID
1 Dual shield series 6 coaxial cable, 1 4-pair Category 5e cable	UH58100	99967283
1 Quad shield series 6 coaxial cable, 1 4-pair Category 5e cable	UH58120	99569947
2 Dual shield series 6 coaxial cables, 2 4-pair Category 5e cables	UH58320	Call
2 Quad shield series 6 coaxial cables, 2 4-pair Category 5e cables	UH58360	99702293
2 Quad shield series 6 coaxial cables, 2 4-pair Category 5e cables, 1 2-fiber interconnect cable	UH58380	99569947



Video-Coax



Security



Twisted Pair



Audio



Fiber



Uniprise Mixed-Use Network Solutions

Voice, Data and Video Administration

Voice, Data and Video Administration

Enclosures, Basic and Enhanced MDU Systems

Enclosures, Basic and Enhanced MDU Systems

Uniprise mixed-use network solutions are designed as total end-to-end solutions specifically for MDU installations in condominiums, town homes, stick built homes and small commercial buildings such as strip malls. The modular and flexible design suits each customer's applications and budget.

Unlike traditional structured wiring systems, Uniprise mixed-use network solutions provide simultaneous distribution of high-speed data, voice and video signals throughout residential or commercial spaces. All incoming signals are fed into a media distribution device then distributed to individual room outlets. Once the system is installed, all electronic equipment, including cable, satellite, computers, printers and fax machines, can be connected to virtually any outlet in your network.

Uniprise mixed-use network solutions include enclosures, as well as Basic and Enhanced systems. The basic system is pre-designed for voice and data applications. The enhanced MDU system provides flexibility for removing modules and allows plug and play for copper and fiber applications/multimedia applications.

Product Set

- Network enclosures: 14 in., 24 in., 34 in. H x 14 in. W
- Voice and data distribution modules: copper and fiber
- Video/coax/RF distribution modules: 1 x 4, 1 x 6, 1 x 8
- Video amplifier: one input one output
- Audio distribution modules: four, six, eight rooms
- 10/100 Mbps network switch, eight port
- Universal bracket: supports any ISP hub/gateway/router/switch

Features and Benefits

- Centralized network environment for voice/data/video/CATV/satellite/security system
- Flexible basic and enhanced network modules allow for easy installation
- Can support Cat 6, Cat 5e and fiber applications
- All enclosures include a grounding, rubber grommet and lock kit
- Cover is reversible for left or right mounting

Technical Specifications

- Complete control of your home's telephone, video, data, CATV, satellite, HDTV, security systems and more
- Supports EIA/IS-60 CEBus Standard for home automation systems
- Meets TIA/EIA 570-B Residential Wiring Standard



UNMDU-ENCL-24 Fully Assembled

Enclosures

Description	Mfg. Part No.	Graybar ID
Enclosure, MDU, 14" x 14.375" x 4.625"	UNMDU-ENCL-14	25092097
Enclosure, MDU, 24" x 14.375" x 4.625"	UNMDU-ENCL-24	25092098
Enclosure, MDU, 34" x 14.375" x 4.625"	UNMDU-ENCL-34	25094684

Basic MDU System

Description	Mfg. Part No.	Graybar ID
Video distribution module (1 x 4) 1GHZ	UNMDU-VDM-14-1G	25101204
Video distribution module (1 x 4) 2GHZ	UNMDU-VDM-14-2G	25170369
Video distribution module (1 x 6) 1GHZ	UNMDU-VDM-16-1G	25094686
Video distribution module (1 x 6) 2GHZ	UNMDU-VDM-16-2G	25170370
Video distribution module (1 x 8) 1GHZ	UNMDU-VDM-18-1G	25170371
Video distribution module (1 x 8) 2GHZ	UNMDU-VDM-18-2G	25092100
Video amplifier module	UNMDU-VAM	25094685
8 Port 10/100 Mbps network switch	UNMDU-SW-8	Call
8 Port telecom expansion module	UNMDU-TDM-EXP-8	25170372
8 Port basic telecom module	UNMDU-TDM-8	25092099
8 Port data module, Cat 5e	UNMDU-DDM-8-C5E	25170373
8 Port data module, Cat 6	UNMDU-DDM-8-C6	Call
4-Room audio distribution module	UNMDU-ADM-4	25170358
6-Room audio distribution module	UNMDU-ADM-6	25170359
8-Room audio distribution module	UNMDU-ADM-8	25170360
Combination module - 1 port data (Cat. 5e), 6 port telecom	UNMDU-CDM-1D/6T	Call
Multi-port patchable telecom module	UNMDU-CDM-2S/24T	25170361

Enhanced MDU System

Description	Mfg. Part No.	Graybar ID
Empty bracket, router/switch/hub	UNMDU-BKT	25170362
Bracket (incl.), 110-50 pair block	UNMDU-BKT-11050	25170363
Empty bracket, (3) pos.	UNMDU-BKT-CDM1	25170364
Empty modular panel (angled)	UNMDU-MOD-ANG-12P	25170365
Empty modular panel (straight)	UNMDU-MOD-12P	25170366
Data module	UNMDU-DM	25170367
Voice module	UNMDU-VM	25170368



UNMDU-ENCL-24



UNMDU-MOD-ANG-12P-3



UNMDU-MOD-12P-3



Voice, Data
and Video
Administration

Enclosures, MDU System
Enhanced, MDU System
Basic, MDU System
UltraHome® Cables

Voice, Data and Video Administration

Enclosures, MDU System

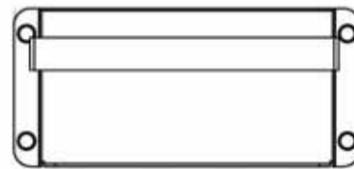
Description	Mfg. Part No.	Graybar ID
Enclosure, MDU, 14" x 14.375" x 4.625"	UNMDU-ENCL-14	25092097
Enclosure, MDU, 24" x 14.375" x 4.625"	UNMDU-ENCL-24	25092098
Enclosure, MDU, 34" x 14.375" x 4.625"	UNMDU-ENCL-34	25094684



UNMDU-ENCL-24

Enhanced, MDU System

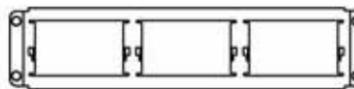
Description	Mfg. Part No.	Graybar ID
Empty bracket with velcro strap, router/switch/hub	UNMDU-BKT	25170362
Bracket (incl.), 110-50 pair block	UNMDU-BKT-11050	25170363
Empty bracket, (3) pos.	UNMDU-BKT-CDM1	25170364
Empty modular panel (angled)	UNMDU-MOD-ANG-12P	25170365
Empty modular panel (straight)	UNMDU-MOD-12P	25170366
Data module	UNMDU-DM	25170367
Voice module	UNMDU-VM	25170368



UNMDU-BKT



UNMDU-BKT-11050



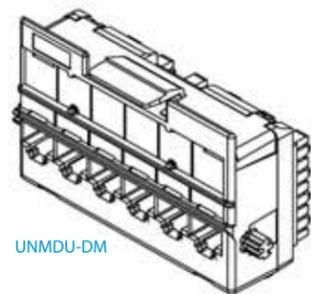
UNMDU-BKT-CDM1



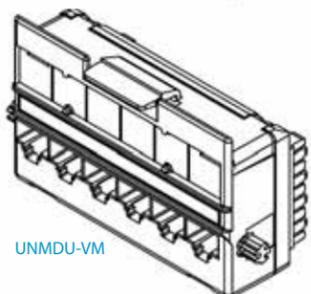
UNMDU-MOD-ANG-12P



UNMDU-MOD-12P



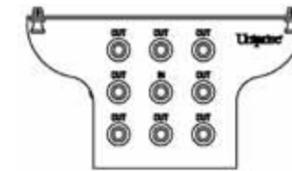
UNMDU-DM



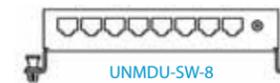
UNMDU-VM

Basic, MDU System

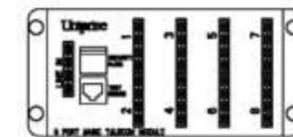
Description	Mfg. Part No.	Graybar ID
Video distribution module (1 x 4) 1GHZ	UNMDU-VDM-14-1G	25101204
Video distribution module (1 x 4) 2GHZ	UNMDU-VDM-14-2G	25170369
Video distribution module (1 x 6) 1GHZ	UNMDU-VDM-16-1G	25094686
Video distribution module (1 x 6) 2GHZ	UNMDU-VDM-16-2G	25170370
Video distribution module (1 x 8) 1GHZ	UNMDU-VDM-18-1G	25170371
Video distribution module (1 x 8) 2GHZ	UNMDU-VDM-18-2G	25092100
Video amplifier module	UNMDU-VAM	25094685
8 Port 10/100 Mbps network switch	UNMDU-SW-8	Call
8 Port telecom expansion module	UNMDU-TDM-EXP-8	25170372
8 Port basic telecom module	UNMDU-TDM-8	25092099
8 Port data module, Cat 5e	UNMDU-DDM-8-C5E	25170373
8 Port data module, Cat 6	UNMDU-DDM-8-C6	Call
4-Room audio distribution module	UNMDU-ADM-4	25170358
6-Room audio distribution module	UNMDU-ADM-6	25170359
8-Room audio distribution module	UNMDU-ADM-8	25170360
Combination module - 1 port data (Cat. 5e), 6 port telecom	UNMDU-CDM-1D/6T	Call
Multi-port patchable telecom module	UNMDU-CDM-2S/24T	25170361



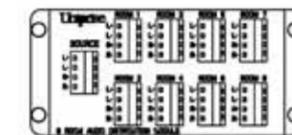
UNMDU-VDM-18-2G



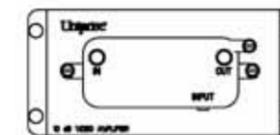
UNMDU-SW-8



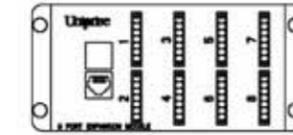
UNMDU-TDM-8



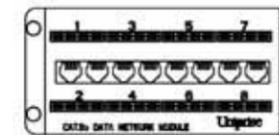
UNMDU-ADM-8



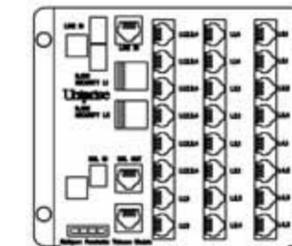
UNMDU-VAM



UNMDU-TDM-EXP-8



UNMDU-DDM-8-C5E



UNMDU-CDM-2S/24T

UltraHome® Cables

See the Uniprise Product Catalog for a complete offering of bundled, video coax, security twisted pair, audio and fiber cables. Also see page 5 of this catalog for UltraHome cables.



Voice, Data
and Video
Administration

On-Q Enclosures

On-Q Enclosures

Demand for higher bandwidth at home continues to increase. Having the infrastructure to telecommute is a common expectation, and digital technology for home entertainment and other applications is growing fast. On-Q/Legrand offers complete multi-media structured cabling systems that support voice, high-speed data, audio/video, entertainment, Internet access, security and more.

On-Q Enclosures

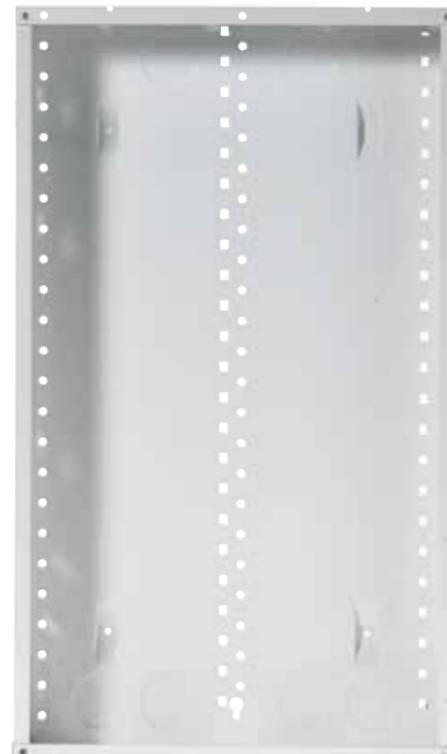
Enclosures are the distribution and administration point for voice, audio and video entertainment, computer networking, high-speed Internet access, home office and more. All enclosures hold a flexible combination of modules, making it simple and easy to configure a system for specific needs.

Features and Benefits

- UL listed
- Dual electrical knockouts
- Surge protection with an integrated grounding terminal
- Multiple oversized cable entry holes
- Supports both recessed and surface-mounted installations
- Four sizes, available with screw on covers or hinged lockable doors
- Cable entry knockouts on rear for surface mount applications
- Flanged cover hides rough edges of drywall openings in recessed installations



OR-EN1450



OR-EN2880

Description	Mfg. Part No.	Graybar ID
14" Enclosure with screw-on door, 14" x 14.25" x 3.6"	OR-EN1400	25163681
14" Enclosure with hinged door and lock, 14" x 14.25" x 3.6"	OR-EN1450	25187828
14" Enclosure only, 14" x 14.25" x 3.6"	OR-EN1480	25143808
14" Enclosure with knockouts, no cover	OR-EN1485	Call
Screw-on cover for 14" enclosure	OR-EN1420	Call
Hinged cover and lock for 14" enclosure	OR-EN1460	25143807
20" Enclosure with screw-on door, 20" x 14.25" x 3.6"	OR-EN2000	25163682
20" Enclosure with hinged door and lock, 20" x 14.25" x 3.6"	OR-EN2050	Call
20" Enclosure only, 20" x 14.25" x 3.6"	OR-EN2080	Call
20" Enclosure with knockouts, no cover	OR-EN2085	Call
Screw-on cover for 20" enclosure	OR-EN2020	Call
Hinged cover and lock for 20" enclosure	OR-EN2060	Call
28" Enclosure with screw-on door, 28" x 14.25" x 3.6"	OR-EN2800	Call
28" Enclosure with hinged door and lock, 28" x 14.25" x 3.6"	OR-EN2850	25161360
28" Enclosure only, 28" x 14.25" x 3.6"	OR-EN2880	25143810
28" Enclosure with knockouts, no cover	OR-EN2885	Call
Screw-on cover for 28" enclosure	OR-EN2820	Call
Hinged cover and lock for 28" enclosure	OR-EN2860	Call
42" Enclosure with screw-on door, 42" x 14.25" x 3.6"	OR-EN4200	Call
42" Enclosure with hinged door and lock, 42" x 14.25" x 3.6"	OR-EN4250	Call
42" Enclosure only, 42" x 14.25" x 3.6"	OR-EN4280	25143812
42" Enclosure with knockouts, no cover	OR-EN4285	Call
Screw-on cover for 42" enclosure	OR-EN4220	Call
Hinged cover and lock for 42" enclosure	OR-EN4260	25143811

Accessories

Description	Mfg. Part No.	Graybar ID
28" Enclosure extender	OR-364450-03	Call
42" Enclosure extender	OR-364450-04	Call
2.5" Grommet ring	OR-F2242	Call
2.5" Knockout plug	OR-F2249	25062835
Replacement key kit – hinged enclosure	OR-364490-01	Call
Replacement lock assembly – hinged door	OR-364478-01	Call
Power strip module – full width	OR-364266-01	25062875
Custom wire management module	OR-364570-01	Call
Duplex outlet power kit 120 VAC/15 A	OR-F7526	25062857
Duplex outlet power kit, surge protected 120 VAC/15 A 170 J/400 clamping voltage	OR-364569-02	Call



On-Q/Legrand MDU Structured Wiring Solutions

Voice, Data and Video Administration

- On-Q Telephone Modules
- On-Q Data Modules
- On-Q Combo Modules
- On-Q Video Modules
- On-Q Wireless Access Points
- On-Q Routers and Switches

Voice, Data and Video Administration

On-Q Telephone Modules

The On-Q family of telephone distribution modules offers flexibility of 8, 10 or 12 outputs. With different combinations of line pin-outs to match customer needs more closely, they distribute up to four incoming telephone lines to as many as 12 locations. Telephone modules may also be connected together for expansion. Optional line seizure jack is available for home security system communication.

Description	Mfg. Mfg. Part No.	Graybar ID
4 x 10 Punchdown telephone module	OR-TM7553	25041257
4 x 10 Punchdown telephone module with line seizure port	OR-TM7554	Call
4 x 8 Telephone module	OR-TM7556	25163686
4 x 12 Telephone module	OR-TM1478	25121909
4 x 12 Configurable telephone module	OR-TM1475	25163684



OR-TM7554



OR-TM1475

On-Q Data Modules

The On-Q data modules are available in 6- and 12-port versions, with or without auxiliary disconnect outlet, in both Cat 5e and Cat 6.

Description	Mfg. Mfg. Part No.	Graybar ID
6-Port data, Cat 5e	OR-AC1012	Call
12-Port data, Cat 5e	OR-AC1014	Call
6-Port data, Cat 6	OR-AC1013	Call
12-Port data, Cat 6	OR-AC1015	Call
6-Port keystone panel with (6) Cat 5e RJ45	OR-AC1000	Call
6-Port keystone panel-empty	OR-AC10001	Call

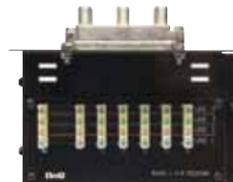


OR-AC1000

On-Q Combo Modules

Distribute telecom and video using one space-saving On-Q combination module. Several variations are available to suit different applications, including 2 GHz video requirements.

Description	Mfg. Mfg. Part No.	Graybar ID
6 x 4 Basic combo module, 2 GHz	OR-364400-14	Call
6 x 6 Basic combo module, 2 GHz	OR-364400-15	Call
6 x 8 Basic combo module, 2 GHz	OR-364400-16	Call
11 x 8 Basic combo module, 2 GHz	OR-364400-17	Call



OR-364400-14

On-Q Video Modules

On-Q passive video modules distribute or combine RF (cable TV or other off-air) signals to multiple television outlets throughout the home. The modules have F-style fittings for connecting incoming and outgoing cables and are available in 4, 6 and 8 way versions. Performance is identical to cable company approved Antronix CMC 300 Series.

On-Q active video modules provide amplification up to 16 television locations or can be used as a scalable and flexible video system.

Description	Mfg. Mfg. Part No.	Graybar ID
1 x 4 Passive video module, 1 GHz	OR-VM1000	25121923
1 x 6 Passive video module, 1 GHz	OR-VM1001	25121924
1 x 8 Passive video module, 1 GHz	OR-VM1002	25121925
1 x 1 Bi-directional video amplifier, 1 GHz	OR-VM7640	25161361
2 x 2 Enhanced bi-directional video amplifier 1 GHz	OR-VM7632	25163687
8-Port video interface module	OR-363915-01	Call
12-Port video interface module	OR-364596-01	Call



OR-VM1001



OR-VM7632



OR-363915-01

On-Q Wireless Access Points

The in-wall wireless access point offers complete wireless home networking, easy installation, an unobtrusive design and user-friendly operation. Its power-over-UTP design requires only a single Cat 5e or 6 cable for both power and data. It installs in standard plastic 3-gang switch box. 802.11g; backwards compatible to 802.11b, supports data rates of up to 54 Mbps. It also includes integrated security features and ships with power over UTP injector and power supply.



OR-364887-01



OR-364891-01

On-Q Routers and Switches

4-Port Router/Switch

This switch allows a single high-speed Internet connection (DSL/cable modem) to be shared among several computers. It features a built-in 4-Port 10/100 switch, software-upgradeable firmware and a security firewall.



OR-364772-02

5-Port 10/100 Switch

The module is equipped with full duplex communication for faster speeds and features auto MDX sensing. It eliminates the need for crossover cabling. Bracket is included.



OR-DA1002

8-Port Gigabit Switch

The new 8-port gigabit switch, designed specifically to meet the needs of today's bandwidth-intensive installations, offers the highest Ethernet speed available for the home. It includes 8 10/100/1000 Mbps ultra fast network ports. Windows/Macintosh/Linux compatible. 10X faster speed than 100Base-T. Double bay bracket included. Power supply is not included (F7760).



OR-DA1008

Accessories

Description	Mfg. Mfg. Part No.	Graybar ID
Cable modem mounting plate	OR-364254-01	Call
Universal mounting plate, full width	OR-364904-01	Call
Universal mounting plate, half width	OR-364896-01	Call
Battery holder	OR-364264-01	Call



On-Q/Legrand MDU Structured Wiring Solutions

On-Q Wall Plates, Outlets and Inserts

On-Q Wall Plates, Outlets and Inserts

Description	Mfg. Mfg. Part No.	Graybar ID
1-Port keystone wall plate, white	OR-WP3401-WH	25163648
2-Port keystone wall plate, white	OR-WP3402-WH	25163653
3-Port keystone wall plate, white	OR-WP3403-WH	25163656
4-Port keystone wall plate, white	OR-WP3404-WH	25163658
6-Port keystone wall plate, white	OR-WP3406-WH	25163662
1-Port decorator frame, white	OR-WP3411-WH	Call
2-Port decorator frame, white	OR-WP3412-WH	Call
3-Port decorator frame, white	OR-WP3413-WH	Call
4-Port decorator frame, white	OR-WP3414-WH	Call
1-Gang decorator wall plate, white	OR-WP1205-WH	Call
2-Gang decorator wall plate, white	OR-WP1207-WH	Call
3-Gang decorator wall plate, white	OR-WP1208-WH	Call
<i>Note: For other color options, change the suffix, -BR=brown, -IV=ivory, -LA=light almond, -BK=black</i>		
Keystone Cat 6 RJ45	OR-WP3460-WH	Call
Keystone Cat 5e RJ45	OR-WP3450-WH	25163673
Keystone Cat 5e RJ25	OR-WP3425-WH	25163668
<i>Note: For additional color options replace the suffix, -BE=blue, -BR=brown, -GY=gray, -IV=ivory, -LA=light almond, -OR=orange, -RE=red, -BK=black</i>		
Keystone binding posts (includes one red and one black)	OR-WP3457-WH	Call
Standard keystone F-connector	OR-WP3481-WH	25163675
Self-terminating keystone F-connector	OR-WP3482-WH	Call
Blank inserts	OR-WP3455-WH	25163677
Speaker outlet (L&R)	OR-WP3456-WH	25163678
White RCA to F-connector	OR-WP3461-WH	Call
Red RCA to F-connector	OR-WP3462-WH	Call
Green RCA to F-connector	OR-WP3463-WH	Call
Blue RCA to F-connector	OR-WP3464-WH	Call
Yellow RCA to F-connector	OR-WP3465-WH	Call
Purple RCA to F-connector	OR-WP3466-WH	Call

Note: For additional color options replace the suffix, -BK=black, -BR=brown, -IV=ivory, -LA=light almond



Voice, Data
and Video
Administration

On-Q Wall Plates,
Outlets and Inserts

YOU SPEND TIME AND MONEY SEARCHING FOR PRODUCTS THAT SAVE YOU TIME AND MONEY.

WE'VE GOT A BETTER IDEA.



Electrical contractors across the country asked us for new ways to improve **Efficiency, Safety and Productivity**. So we worked closely with the best suppliers. Sorted through the many products and services available. And for the first time, assembled the best of what's new. With Graybar ESP, you'll have the best new thinking in the business. New ways to use labor hours more efficiently. Reduce your risk. And get to the next job faster. Graybar ESP is here to light the way.

For your free copy of *Winning More Business with Graybar ESP*, visit graybar.com/esp, ask your Graybar representative or call 1-800-GRAYBAR (472-9227).



The Siemon Company/MDU Cabling Solutions

UTP and Coax MDU Connectivity Solutions

Command Center® Enclosures

Siemon Command Center® enclosures are a cost-effective cabling solution for terminating and cross-connecting a variety of communication, entertainment and security services. Choose from the 10 in. (small installations), 20 in. (mid-size installations) or 36 in. (large installations) enclosures to customize a high-performance, versatile, user-friendly cabling solution. All Command Center enclosure voice/data/video/audio solutions are fully compliant with both ANSI/TIA/EIA-570-A Grade 1 and 2 specifications.

Features and Benefits

- Easy upgrade – space provided to add up to eight additional CO lines
- Lance tabs – for easy cable management utilizing Siemon hook and loop Velcro strips
- RF distribution – RF distribution panel distributes one RF signal to up to eight locations
- Amplifier – space provided for an RF amplifier
- 110V power – cutout for a single gang electrical box to supply dedicated 110V to power active equipment

Siemon 10" Command Center

Description	Color	Mfg. Part No.	Graybar ID
10" Enclosure with factory-installed lock, cover and provisions for a single gang electrical box, width: 368 mm (14.5") height: 254 mm (10") depth: 119.4 mm (4.7")	Light ivory	HC-ENCL-10-80	Call



HC-ENCL-10-80

Siemon 20" Command Center

Description	Color	Mfg. Part No.	Graybar ID
20" Enclosure with cover and provisions for a single gang electrical box, width: 368 mm (14.5") height: 508 mm (20") depth: 119.4 mm (4.7")	Light ivory	HC-ENCL-20-80	22125220



HC-ENCL-20-80

36" Command Center

Description	Color	Mfg. Part No.	Graybar ID
36" Enclosure with cover and provisions for two single gang electrical boxes, width: 368 mm (14.5") height: 914 mm (36") depth: 119.4 mm (4.7")	Light ivory	HC-ENCL-36-80	Call



HC-ENCL-36-80

Command Center® Voice/Data Panels

S110® Voice Panel (Full Size)

Description	Color	Mfg. Part No.	Graybar ID
Siemon 100-pair S110 field termination block includes two CO jacks, (one for interfacing with security systems [RJ31X] and one for use as an auxiliary disconnect outlet [ADO]), and an ADO patch cord, for use in the 10, 20 and 36" command centers, mounting, connecting, and labeling hardware included	Light ivory	HC-110-80	25084873



HC-110-80

TERA®-MAX® Panel

Description	Color	Mfg. Part No.	Graybar ID
16-Port MDU F/UTP TERA-MAX panel, distributes data to up to 16 locations when fully populated with F/UTP MAX modules, for use in the 10, 20 and 36" command centers, mounting hardware included	Black	HC-TM-16-01	Call



HC-TM-16-01

Note: Use (XX) to specify color for all MAX modules 20 = ivory and 80 = light ivory

12-Port Data Panel (Half Size)

Description	Color	Mfg. Part No.	Graybar ID
Distributes data to up to 12 locations when fully populated with MAX modules and hub* (hub not supplied), for use in the 20 and 36" command centers, mounting and labeling hardware included	Light ivory	HC-MOD12-80	Call



HC-MOD12-80

Note: *Accommodates hubs up to 127 mm (5") long x 76.2 mm (3") wide x 50.8 mm (2") high
Use (XX) to specify color for all MAX modules 20 = ivory and 80 = light ivory

36-Port Data Panel (Full Size)

Description	Color	Mfg. Part No.	Graybar ID
Distributes data to up to 36 locations when fully populated with MAX modules and hub* (hub not supplied), for use in the 10, 20 and 36" command centers, mounting and labeling hardware included	Light ivory	HC-MOD36-80	Call



HC-MOD36-80

Note: *Accommodates hubs up to 304.8 mm (12") long x 76.2 mm (3") wide x 50.8 mm (2") high
Use (XX) to specify color for all MAX modules 20 = ivory and 80 = light ivory

36-Port MAX Utility Panel (Full Size)

Description	Color	Mfg. Part No.	Graybar ID
36-port MAX utility panel, distributes data to up to 36 locations when fully populated with MAX modules, for use in the 10, 20 and 36" command centers, mounting and labeling hardware included	Light ivory	HC-MAX36-80	25055659



HC-MAX36-80

Note: *Accommodates hubs up to 304.8 mm (12") long x 76.2 mm (3") wide x 50.8 mm (2") high MAX modules and hub* (hub not supplied), For use in the 10, 20, and 36" Command Centers. Mounting and labeling hardware included. Light ivory

*Accommodates hubs up to 304.8 mm (12") long x 76.2 mm (3") wide x 50.8 mm (2") high
Use (XX) to specify color for all MAX modules 20 = ivory and 80 = light ivory

Blank Shelf Panel (Full Size)

Description	Color	Mfg. Part No.	Graybar ID
Blank shelf panel for mounting active equipment (i.e., hubs, cable modems, amplifiers, etc.), for use in the 10, 20 and 36" command centers, mounting hardware included	Light ivory	HC-SHLF-80	Call



HC-SHLF-80

Note: *Accommodates hubs up to 304.8 mm (12") long x 76.2 mm (3") wide x 50.8 mm (2") high

RF Panel (Full Size)

Description	Color	Mfg. Part No.	Graybar ID
Full size blank RF distribution panel. (load up to 4 HC-RF-8NS splitters to achieve desired RF distribution capacity), for use in the 10, 20 and 36" command centers, mounting and labeling hardware included	Light ivory	HC-RF-FP-80	Call



HC-RF-FP-80

Siemon MDU
Connectivity
Solutions

Command Center®
Enclosures

Command Center®
Voice/Data Panels



The Siemon Company/MDU Cabling Solutions

UTP, Coax MDU and Structured Connectivity Solutions

Command Center® Coax Panels

RF Splitter

Description	Color	Mfg. Part No.	Graybar ID
Siemon 1 x 8 RF splitter operates from 5 MHz to 1 GHz, all threaded F-type ports are two-way power passing, printed circuit board design ensures consistent RF performance and high port-to-port isolation (for use with HC-RF-FP-80).		HC-RF-8NS	22118542



HC-RF-8NS

RF Panel (Half Size)

Description	Color	Mfg. Part No.	Graybar ID
Half size panel distributes 1 RF signal to up to 8 locations, six open ports available for other applications, for use in the 20 and 36" Command Centers, mounting and labeling hardware included.	Light ivory	HC-RF-8HS-80	22125222



HC-RF-8HS-80

RF Panel (Half Size)

Description	Color	Mfg. Part No.	Graybar ID
Half size vertical panel distributes 1 RF signal to up to 8 locations, for use in the 10" Command Center only, mounting and labeling hardware included.	Light ivory	HC-RF-8VS-80	25084872



HC-RF-8VS-80

MAX® Faceplates

MAX Modular Faceplates

Description	Mfg. Part No.	Graybar ID
Single gang faceplate for one MAX module	MX-FP-S-01-(XX)	Call
Single gang faceplate for two MAX modules	MX-FP-S-02-(XX)	Call
Single gang faceplate for three MAX modules	MX-FP-S-03-(XX)	Call
Single gang faceplate for four MAX modules	MX-FP-S-04-(XX)	Call

Note: Use (XX) to specify color for all MAX faceplates: 20 = ivory, 80 = light ivory

10G 6A MAX® Modular Faceplates

Description	Mfg. Part No.	Graybar ID
Single gang 10G faceplate for two 10G 6A MAX modules	10GMX-FPS02-(XX)	Call
Single gang 10G faceplate for four 10G 6A MAX modules	10GMX-FPS04-(XX)	Call

Note: Use (XX) to specify color for all MAX faceplates: 20 = ivory, 80 = light ivory



MX-FP-S-02-(XX)



10GMX-FPS02-(XX)



10GMX-FPS04-(XX)



MX-FP-S-04-(XX)

MAX Modules

10G 6A MAX Modules

Description/Color	Mfg. Part No.	Graybar ID
Flat 10G 6A MAX module, T568A/B, all outlets include 1 red, 1 blue and 1 color matching icon for color coding	10GMX-F(XX)	Call

Note: Use (XX) to specify color for all MAX modules: 20 = ivory, 80 = light ivory



10GMX-F(XX)

MAX 6 Modules

Description/Color	Mfg. Part No.	Graybar ID
Flat category 6 MAX module, T568A/B, all outlets include 1 red, 1 blue and 1 color matching icon for color coding	MX6-F(XX)	Call

Note: Use (XX) to specify color for all MAX modules: 20 = ivory, 80 = light ivory



MX6-F(XX)

MAX 5e Modules

Description/Color	Mfg. Part No.	Graybar ID
Flat category 5e MAX module, T568A/B, all outlets include 1 red, 1 blue and 1 color matching icon for color coding	MX5-F(XX)	Call

Note: Use (XX) to specify color for all MAX modules: 20 = ivory, 80 = light ivory



MX5-F(XX)

MAX Coax Modules

Description/Color	Mfg. Part No.	Graybar ID
Flat MAX module with 1 75 ohm F-type adapter, all outlets include 1 red, 1 blue and 1 color matching icon for color coding	MX-F-FA-(XX)	Call

Note: Use (XX) to specify color for all MAX modules: 20 = ivory, 80 = light ivory



MX-F-FA-(XX)

Connectors

RG6 F-Type Compression Connector

Description	Mfg. Part No.	Graybar ID
RG6 F-type compression connector	RG6C	25141398



RG6C

RG6 F-Type Compression Tool

Description	Mfg. Part No.	Graybar ID
RG6 F-type compression tool	RG6C-T	Call



RG6C-T



Leviton Manufacturing

Multimedia Structured Cabling Device

QuickPort® Connectors

QuickPort Snap-In Connectors

QuickPort offers the ultimate in snap-in flexibility and allows complete field-configurability for the installer. It forms an attractive and totally functional connection package for any application. Whether you need to connect voice, data, video, audio or security lines, QuickPort modules ensure firm contact and uninterrupted service with tight-fitting protection and a smart look.

Features

- Available in GigaMax® 5e, Category 5, Category 3, and voice grade snap-in styles and featuring color-coded wiring labels
- Contain T568A and T568B wiring patterns, for dual flexibility in a single connector, plus fast, accurate termination of station wiring
- Each modular jack's patented "cutting ledge" trims the wire during termination when used with the high-impact punchdown tool
- Audio and video connectors require no soldering; connections can be made with easy-to-use tools
- All connectors feature standard QuickPort compatibility and color-coded wiring labels for fast, accurate terminations

Description	Color	Mfg. Part No.	Graybar ID
GigaMax 5e channel-rated connector	W, I, A, GY, E, R, B, O, C, Y, G, P	5G108-R*5	Call
Category 5 connector	—	41108-R*5	Call
Category 3 connector	—	41108-R*3	Call
6-Conductor USOC connector	—	41106-R*6	Call
RCA-110 connector	W, I, A, G, E, L, V	40735-R*	Call
BNC adapter, gold-plated, 75-Ohm	W, I, A	40832-B*	Call

Note: Category and voice grade connectors: ivory (-I), white (-W), almond (-A), gray (-G), dark red (-R), black (-E), blue (-L), brown (-B), orange (-O), crimson red (-C), yellow (-Y), green (-V), purple (-P)



41108-R*5



41108-R*3



41106-R*6



40735-R*



40832-B*



5G108-R*5

QuickPort® Adapters

F-Type QuickPort Adapter

Features

- Nickel or gold-plated female-to-female connector with screw-on front and rear connections
- Connectors are compatible with a variety of patch panels, QuickPort and MOS wallplates, including flush and surface mount styles
- Applications include TV, VCR, DVD, satellite and home theater
- Use RG6 coaxial cable and terminate in an "F" plug



40831-B

Description	Color	Mfg. Part No.	Graybar ID
F-type bulkhead module, nickel-plated	I, W, A	41084-FF	Call
F-type bulkhead module individual polybag pack, gold plated	I, W, A	40831-B	Call

QuickPort Blank Inserts

Features

- Fill unused QuickPort housing openings
- Inserts are compatible with a variety of patch panels, QuickPort and MOS wallplates, including flush and surface mount styles



41084-B

Description	Color	Mfg. Part No.	Graybar ID
Blank Insert (pack of 10)	I, W, E, GY, A	41084-B	Call

QuickPort Decora® Multimedia Inserts

Features

- Combine voice, data, audio and video in one compact, attractive Decora wallplate
- Offer designer style to match Leviton Decora electrical switches and outlets, with the capacity and flexibility to support high-tech communications for workstations
- QuickPort snap-in modules fit neatly into a single gang Decora wallplate and can be combined with Decora electrical devices (with a barrier box) in a multi-gang wallplate
- Simply snap in the QuickPort connectors of your choice to customize multimedia options

Description	Color	Mfg. Part No.	Graybar ID
2-Port insert	I, W, E, GY, A, B	41642-00I	Call
3-Port insert	I, W, E, GY, A, B	41643-00I	Call
4-Port insert	I, W, E, GY, A, B	41644-00I	Call
6-Port insert	I, W, E, GY, A, B	41646-00I	Call
Blank insert	I, W, E, GY, A, B	80414-00I	Call

Note: Colors: ivory (-I), white (-W), almond (-A), gray (-G), dark red (-R), black (-E), blue (-L), brown (-B), orange (-O), crimson red (-C), yellow (-Y), green (-V), purple (-P)



41642



41643



41644



41646



80414

Multimedia Structured Cabling Systems

QuickPort® Connectors

QuickPort® Adapters

QuickPort Blank Inserts

QuickPort Decora® Multimedia Inserts



Leviton Manufacturing

Structured Media® Components – Leviton Integrated Networks™

Enclosures

Series 140 Structured Media® Enclosure

Leviton Integrated Network's Structured Media® components and systems deliver the capacity, bandwidth and speed that today's and tomorrow's information and entertainment technologies will demand. An innovative series of modules and media centers – configured for either essential platforms or more customized enhanced platforms – manage and distribute voice, data, audio and video in flexible configurations that best suit each developer, builder and homeowner's individual requirements.

Features

- This 14 in. professional-grade whole-apartment/condo media enclosure creates one distribution point in the unit for all low-voltage cables per TIA-570-B specifications
- Accommodates up to two pre-configured structured cabling panels – delivering audio/video, voice and data to any room of the home or office
- The sturdy design and functionality facilitate installation, reducing job-site labor costs, and making it ideal for essential home networking – the UL listed communication enclosure also includes knockouts for power receptacles

Description	Mfg. Part No.	Graybar ID
Enclosure and flush-mount cover	47605-140	99522799

Series 280 and 420 Structured Media® Enclosures

Features

- Serve larger condos and single-family homes as command central for communications, education, entertainment and business needs
- Bringing every conceivable technology distribution point together in one place, these enclosures make running cable and managing media both simple and cost-effective
- The 28 in. and 42 in. high units accommodate all the latest in functions such as home networking, fax, internet, multi-line telephones, security cameras, coaxial cable and satellite video distribution
- Series 280 accommodates up to eight distribution modules, and the series 420 has capacity for up to 12 modules – the UL listed communication enclosures also have knockouts for power receptacles

Description	Mfg. Part No.	Graybar ID
Series 280 enclosure and flush-mount cover, empty	47605-28W	99549122
Series 420 enclosure and flush-mount cover, empty	47605-42W	99549123

Compact Structured Media® Enclosure – For Multi-Dwelling Units

Features

- Offers a compact, cost-effective distribution point for media in smaller apartments and small condominiums
- Hosts up to three telephone expansion boards and one passive video splitter
- Flexibility to accommodate a variety of telephone/video distribution configurations

Description	Mfg. Part No.	Graybar ID
MDU enclosure and cover	47605-MDU	22108744
MDU kit (MDU enclosure and cover plus 1 x 6 telephone expansion board)	47604-F6	22108745
MDU kit (MDU enclosure and cover plus 1 x 6 telephone expansion board and 6-way splitter)	47604-F6S	22108746



Panels

Pre-Configured Structured Cabling Panels

Features

- Combine voice, data and RF modules to create an economical one-stop home and office media distribution point
- Structured media panels are available in 12, 18 or 24 ports
- Use the panels as they are, expand with easy snap-in expansion boards, or combine with other panels or stand-alone modules solution tailored to your specific needs
- The new non-conductive synthetic bracket features a rugged construction and a “shelf-style” design with enhanced cable management and easier installation

Description	Consists of	Mfg. Part No.	Graybar ID
Basic telephone and video panel (BTV)	1 x 9 bridged telephone board, bridge up to 4 telephone lines to 9 locations	47606-BTV	22052517
Advanced home telephone and video panel (AHT)	Telephone line distribution module, 19 multi-line telephone connections	47606-AHT	22052520
12-Port structured media panel (12P)	Telephone line distribution module, patch data or telephone service to 12 locations	47603-12P	25034552
Telephone and 4-way TV	1 x 9 bridged telephone board and 4-way passive TV splitters	47603-1G4	22078034
Telephone and 6-way TV	1 x 9 bridged telephone board and 6-way passive TV splitters	47603-1G6	22052515
Telephone and 8-way TV	1 x 9 bridged telephone board and 8-way passive TV splitters	47603-1G8	22085869
Telephone security and 6-way TV	1 x 8 bridged telephone board with security jack to plug in security system to L1 or L2	47603-TSV	25100052
Telephone, data, and 6-way TV	1 x 4 4-line bridged telephone and 4-port Cat 5e combo board plus 6-way TV splitter	47603-DP6	Call



47606-BTV



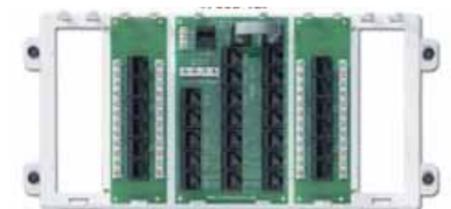
47603-1G4



47606-AHT



47603-DP6



47603-12P



Leviton Manufacturing

Structured Media® Components – Leviton Integrated Networks™

Internet Gateway/Router

Features

- Allows four users to share single Internet connection at the same time
- Browser-based wizard for easy configuration with Internet services using cable, DSL or satellite modems
- Includes commercial-style firewall features and DDNS for remote home user access
- Easily configurable parental control to prevent access to selected web sites and key words
- Includes integral four-port 10/100Base-T Ethernet switch with SMC mounting bracket and power supply



47611-GT4

Description	Mfg. Part No.	Graybar ID
10/100 Internet Gateway/Router	47611-GT4	22067308

AC Power Modules

Features

- The AC power modules work with the series 140, 280 and 420 structured media centers
- Non-surge protected AC power modules offer an economical method of providing power to distribution modules and, except for built-in surge suppression, offer the same features as the respective surge-protected units
- In extremely excessive surge conditions, an alarm will sound to warn the user that power is unprotected



47605-DP

Description	Mfg. Part No.	Graybar ID
15A Surge AC power module, two duplex receptacle	47605-DP	99549126
15A Non-Surge AC power module, two duplex receptacles	47605-NDP	22048973

Passive TV Splitter Components

Features

- Use 4-, 6- and 8-way passive TV splitters to split digital cable, quality cable TV and off-air antenna signals to four, six or eight televisions throughout the home
- Provide digital cable, cable TV and other TV services, via coaxial cable, to any room
- Feature die-cast housing and printed circuit board construction
- Units are for SMC 140, 280, 420 and come with mounting bracket
- Use with the video amplifier for increased signal strength



47690-4C, 6C, 8C

Description	Mfg. Part No.	Graybar ID
1 x 4 Passive video splitter module (1 GHz)	47690-4C	99567306
1 x 6 Passive video splitter module (1 GHz)	47690-6C	99567307
1 x 8 Passive video splitter module (1 GHz)	47690-8C	99549131

Amplified CATV Distribution Modules

Features

- HDTV compatible amplified 1 x 8 and 1 x 1 support digital systems with excellent ingress/egress isolation, group delay and channel-to-channel isolation specifications
- Distributes CATV and off-air antenna TV signals on coaxial cable throughout the individual apartment or condo unit
- Built-in, ultra-low noise amplifier provides essentially unity gain (all output ports have same signal level as CATV input)
- Choose from one or eight outputs
- Incorporates state-of-the-art bi-directional signal paths to support cable modem, cable box and direct TV, DTV and HDTV tuner applications



47693-8P

Description	Mfg. Part No.	Graybar ID
1 x 8 Premium CATV module, 1 GHz	47693-8P	Call
1 x 1 Premium CATV module, 1 GHz	47693-1P	Call

Structured Media® Components

Internet Gateway/Router

AC Power Modules

Passive TV Splitter Components

Amplified CATV Distribution Modules

The AMP NETCONNECT Home Net-Works™ system is engineered as a true structured cabling system with technology proven in commercial buildings around the world.

Color-coded plug-and-play patching – any outlet port can be easily configured for your application. Cat 5e or Cat 6 performance – the choice is yours.

Aesthetic value – neat, organized and flexible.

Fast, effective terminations – with 110 punch-down technology that reduces labor and produces high-performance connections.

It's all here – everything you need to design and deliver the networking system and connections people want in their homes.



RCS14

RCS28

RCS36

Media Convergence Centers

The AMP NETCONNECT media convergence centers provide a flexible mounting solution to accommodate the Cat 5e, Cat 6 or fiber connectivity panels and RF video modules. The enclosures also feature knockouts for AC power junction box and can accommodate Ethernet switches, cable/dsl modems or residential gateways.

- Meets or exceeds TIA/EIA 570-B; UL approved

Enclosures

Description	Mfg. Part No.	Graybar ID
RCS14 enclosure (14.25" H x 14.25" W x 3.6" D)	1933691-1	25187078
RCS28 enclosure (28.0" H x 14.25" W x 3.6" D)	1933692-1	25187079
RCS36 enclosure (36.0" H x 14.25" W x 6.0" D)	1375216-1	25047568

Note: RCS14 and RCS28 include screw-on covers

Covers

Description	Mfg. Part No.	Graybar ID
RCS36 hinged, lockable cover	1375272-1	25187070



RCS28

RCS14

RCS36

With Our Connections, Almost Anything Is Possible in Home Networking

Media Convergence Centers



Tyco Electronics

AMP NETCONNECT Home Net-Works™ Solution

Unloaded Connectivity Panels and Modules

The AMP NETCONNECT unloaded connectivity brackets are typically configured with two Cat 5e or Cat 6 patch panel modules and one six-port telecom bridge module. This configuration provides the capability to terminate up to 12 outlet cables – up to four analog voice lines may be patched to any six ports using color-coded telecom line designation cords (purchased separately). Any of the 12 ports may be used for high-speed Ethernet application by patching directly to an Ethernet switch (sold separately).

- Meets or exceeds TIA/EIA Category 5e or 6 specifications

Description	Mfg. Part No.	Graybar ID
RCS14/RCS28 unloaded connectivity mounting bracket	1933693-1	25187080
RCS36 unloaded connectivity mounting bracket	1479699-1	Call
SL interface housing	1479697-1	Call
Blank filler	1479698-1	Call
Cat5e 6-port connectivity module	1479700-1	Call
Standard 6-port telecom bridge module	1479701-1	Call
Telecom bridge/security module	1479702-1	Call
DSL/security module	1479703-1	Call
110 telecom bridge module	1479865-1	Call



1479699-1



1479697-1



1479698-1



1479700-1



1479701-1



1479702-1



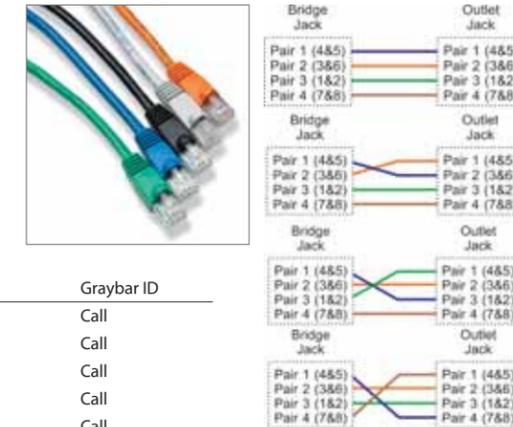
1479703-1



1479865-1

Telecom Line Designation Cords

Color-coded telecom line cords are used for cross-connecting analog voice lines from telecom bridge module to patch panel ports. Designates primary line selection at outlet jack.



Description	Mfg. Part No.	Graybar ID
Line 1/2 telecom cord, blue	1479557-1	Call
Line 2 telecom cord, orange	1479004-1	Call
Line 3 telecom cord, green	1479005-1	Call
Line 4 telecom cord, gray	1479006-1	Call
Line 3/4 telecom cord, black	1479556-1	Call

Video Distribution Modules

AMP NETCONNECT Home Net-Works passive and active video modules provide a flexible and easy method for distributing high-quality CATV/broadcast RF signals throughout an installed AMP NETCONNECT Home Net-Works coaxial distribution system.

Description	Mfg. Part No.	Graybar ID
1 x 6 passive video module (5-1000MHz)	1479334-1	Call
1 x 8 passive video module (5-1000MHz)	1479335-1	Call
2 x 8 amplified video module (5-1000MHz)	1479337-1	Call



Media Convergence Center Accessories

Universal Equipment Panel (for use with RCS36 only)

- 1 x 1 in. grid pattern accepts audio, video and accessory modules with plastic push-pin fasteners

- Creates raceway for cable concealment and enhanced aesthetics

Network Shelf

- Accommodates network electronics such as cable/DSL modems, routers and switches

Velcro Hold-Down Bracket

- Used to secure network electronics, such as cable/DSL routers

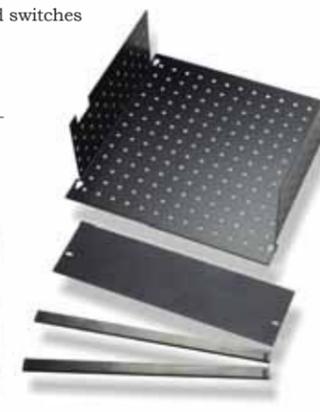
Description	Mfg. Part No.	Graybar ID
RCS36 universal equipment panel	1479282-1	Call
Network shelf	1479437-1	Call
Velcro hold-down bracket (1pc)	1479440-1	Call



1479440-1



1479437-1



1479282-1

With Our
Connections, Almost
Anything Is Possible
in Home Networking

Unloaded Connectivity
Panels and Modules

Telecom Line
Designation Cords

Video Distribution Modules

Media Convergence
Center Accessories



With Our
Connections, Almost
Anything Is Possible
in Home Networking

Cat 5e / Cat 6 Multimedia
Outlet Kits

Cat 5e / Cat 6 Outlet Cable

Cat 5e / Cat 6 Multimedia Outlet Kits

The AMP NETCONNECT multimedia outlet kits are available in Cat 5e or Cat 6 performance categories. A choice of decorator or low-profile, mid-size faceplates is also available. Kits include faceplate, voice, data and video jacks.

Description	Mfg. Part No.	Graybar ID
Cat 5e decorator 1 + 1 multimedia outlet kit	1479333-3	Call
Cat 6 decorator 1 + 1 multimedia outlet kit	1479348-3	Call
Cat 5e mid-size 1 + 1 multimedia outlet kit	1479844-3	Call
Cat 6 mid-size 1 + 1 multimedia outlet kit	1479847-3	Call
Cat 5e decorator 2 + 1 multimedia outlet kit	1479161-3	Call
Cat 6 decorator 2 + 1 multimedia outlet kit	1479349-3	Call
Cat 5e mid-size 2 + 1 multimedia outlet kit	1479845-3	Call
Cat 6 mid-size 2 + 1 multimedia outlet kit	1479848-3	Call
Cat 5e decorator 2 + 2 multimedia outlet kit	1479554-3	Call
Cat 6 decorator 2 + 2 multimedia outlet kit	1479555-3	Call
Cat 5e mid-size 2 + 2 multimedia outlet kit	1479846-3	Call
Cat 6 mid-size 2 + 2 multimedia outlet kit	1479849-3	Call



1479844-3



1479845-3



1479846-3

Cat5e / Cat6 Outlet Cable

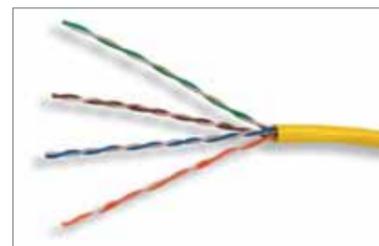
■ Meets or exceeds TIA/EIA Category 5e or 6 specifications

Description	Mfg. Part No.	Graybar ID
Cat 5e UTP Cable, CMR, blue	219538-6	99495927
Cat 6 UTP Cable, CMR, blue	219560-6	97272995
Cat 5e UTP Cable, CMP, blue	219513-6	97273003
Cat 6 UTP Cable, CMP, blue	219567-6	99471979

Note: *X denotes color: -2=white; -6=blue; -8=yellow



Cat 6 Outlet Cable



Cat 5e Outlet Cable

GRAYBAR & SQUARE D HAVE A FASTER WAY TO INSTALL LIGHTING PANELBOARDS.

IT'S CALLED HALF TIME.



NEW Square D® NQ 240V Lighting Panelboard. It only needs half the parts and takes half the time to install than the NQOD. Want to work more efficiently? Start by visiting graybar.com/esp.



Electrical contractors asked for a panelboard with fewer parts that could be installed in half the time. Now you have it, with the new NQ. After all, we know how you're asked to work harder, for less money.

Work safer, to lower insurance costs. And work smarter, so you can get to the *next* job faster. Markets are shifting, and margins are shrinking. There's a shortage of qualified workers, and customers have never been more demanding.

How can you juggle it all, while turning a profit on every job? By using *Graybar ESP*, a new set of products and services that makes you more efficient, safe and productive. Just like the new NQ. Are you ready to win more business?



Media Distribution System Enclosures, Video Splitters

Media Distribution System

Media Distribution System Enclosures

With an attractive modern appearance that suits any interior, media distribution enclosures offer easy installation, flexibility for quick modifications and scalability for future growth needs.

Features and Benefits

- 1 in. grid pattern in base provides mounting and orientation flexibility for the hubs
- Multiple 2.5 in. knockouts at top and bottom for cable entry and exit
- Include two single gang power knockouts
- Cantilever mounting slots flex to accommodate misaligned studs
- Shear forms along sidewalls to help route and secure cable in place
- Drywall positioning slots



NMSGRPENC

Description	Std. Pkg. Qty.	Mfg. Part No.	Graybar ID
Advanced Enclosures			
14" x 14" media distribution enclosure base	1	MS14B	Call
14" x 14" hinged door with lock and key	1	MS14HD	Call
14" x 24" media distribution enclosure base	1	MS24B	Call
14" x 24" hinged door with lock and key	1	MS24HD	Call
Basic Enclosures			
14" x 14" media distribution basic enclosure with screw down door	1	MSB14E	Call
14" x 24" media distribution basic enclosure with screw down door	1	MSB24E	Call

Note: Base and door for advanced enclosures sold separately. All product color is white

Media Distribution System Video Splitters

Video splitters split incoming video/coax lines and distribute high quality signals throughout a home for optimum performance and capacity for future growth.

Features and Benefits

- Split incoming video/coax to distribute service throughout the unit
- Pre-mounted onto metal bracket for quick installation
- Include grounding screws
- Snap directly onto grid patterns within enclosures to simplify installations and allow easy moves, adds and changes



NMSGRPVID

Description	Std. Pkg. Qty.	Mfg. Part No.	Graybar ID
1GHz Passive Splitters			
Media distribution 1 x 4 passive video splitter with 1GHz performance to distribute high quality RF signals to up to four outputs	1	MS4S1G	Call
Media distribution 1 x 8 passive video splitter with 1GHz performance to distribute high-quality RF signals to up to eight outputs	1	MS8S1G	Call
2GHz Passive Splitters			
Media distribution 1 x 4 passive video splitter with 2GHz performance to distribute high-quality RF signals to up to four outputs	1	MS4S2G	Call
Media distribution 1 x 8 passive video splitter with 2GHz performance to distribute high-quality RF signals to up to eight outputs	1	MS8S2G	Call

Note: All product color is black.

Media Distribution System NETKEY® Voice Hubs

Voice hubs split up to four incoming phone lines to provide basic phone, fax and modem services for up to eight locations (per line) in a home – expandable up to another eight phone connections with an expansion hub. A built-in security interface offers phone override services to transmit safety alarms in the event of an emergency for added home security and protection.

Features and Benefits

- Phone distribution can manage up to four incoming lines, each servicing up to eight different locations
- Test ports allow verification of service activation
- Security system with built-in switch overrides phone service to notify user in case of emergency
- Phone expansion will add eight additional connections per line



NKM8PD-LB

Description	Std. Pkg. Qty.	Mfg. Part No.	Graybar ID
Phone Distribution			
Phone distribution hub that includes test ports and a built-in security interface switch that can override phone service in emergency situations	1	NKM8PD	Call
Phone Expansion			
Phone expansion hub that adds up to eight additional phone connections throughout a unit/home	1	NKM8PE	Call

Note: All product color is black.

Media Distribution System NETKEY® Data Hub

Data hub delivers high performance connectivity or multimedia services. Designed with front-side 110 punchdowns, the data hub allows for fast and effective terminations and easy access to connections within the enclosure.

Features and Benefits

- Phone distribution can manage up to four incoming lines, each servicing up to eight different locations
- Category 5e performance designed with front side 110 punchdown for easy access
- Fast and effective termination
- Allows router/switch to deliver media/data service to up to six different locations



NKM5E6PP-LB

Description	Std. Pkg. Qty.	Mfg. Part No.	Graybar ID
Data Hub			
Category 5e patch panel with 110 punchdown terminations.	1	NKM5E6PP	Call

Note: All product color is black.

Media Distribution System Accessories

Accessories complement the enclosure installation with products that provide proper mounting, installation of third-party modules and much more.

Features and Benefits

- Support media distribution voice hubs, data hub and video splitters

Description	Std. Pkg. Qty.	Mfg. Part No.	Gray-
Equipment Bracket			
Media distribution equipment bracket that allows a variety of third-party equipment to be securely mounted within an enclosure	1	MSEBRKT	Call
Patch Panel			
Media distribution NETKEY® patch panel that uses front-side removable faceplates and accepts all NETKEY® modules	1	NKM8PP	Call
Cable Management			
Media distribution cable management kit	1	MSCM-KIT	Call

Note: All product color is black.



NMSGRPACC

Media Distribution System

Media Distribution System Enclosures

Media Distribution System Video Splitters

Media Distribution System NETKEY® Voice Hubs

Media Distribution System NETKEY® Data Hub

Media Distribution System Accessories



PANDUIT® NETKEY® Solution

Audio/Video Modules

NETKEY® Audio/Video Modules

NETKEY® Faceplates, Modular Furniture Faceplates and Surface Mount Boxes

NETKEY® Audio/Video Modules

NETKEY® audio/video modules provide a complete, standards-compliant cabling infrastructure solution for voice, data and video applications. Modules feature the universal “keystone” latch design and are compatible with a wide assortment of faceplates, surface mount boxes and modular patch panels.

Features and Benefits

- Keystone modules with connectors for F-Type, BNC coax, RCA connectors and S-video
- Blank keystone modules available for future expansion
- Designed to support audio and video applications
- Compatible with NETKEY® faceplates, surface mount boxes, modular patch panels and adapter panels



Description	Color	Std. Pkg. Qty.	Std. Ctn. Qty.	Mfg. Part No.	Graybar ID
NETKEY® F-Type Module					
Keystone module with 75 ohm industry standard F-type coax bulkhead coupler	Off white	1	10	NKFIW	25020716
NETKEY® 50 Ohm BNC Coax Module					
Keystone module with 50 ohm industry standard coax bulkhead coupler	Off white	1	10	NKBNMIWY	25108093
NETKEY® RCA Punchdown Modules					
Keystone module supplied with 1 RCA punchdown type connector with red insert	Off white	1	10	NKRPMRIW	25094563
Keystone module supplied with 1 RCA punchdown type connector with white insert	Off white	1	10	NKRPMWIW	25094565
Keystone module supplied with 1 RCA punchdown type connector with yellow insert	Off white	1	10	NKRPMYIW	25094564
NETKEY® RCA Pass-Through Modules					
Keystone module supplied with 1 RCA coupler with red insert	Off white	1	10	NKRTMRIW	22061876
Keystone module supplied with 1 RCA coupler with yellow insert	Off white	1	10	NKRTMYIW	22061887
Keystone module supplied with 1 RCA coupler with white insert	Off white	1	10	NKRTMWIW	22061881
NETKEY® S-Video Modules					
Keystone module with 110 style punchdown to SVHS connector	Off white	1	10	NKSPMIW	22061895
Keystone module supplied with 1 S-video pass-through coupler	Off white	1	10	NKSVCIW	Call
NETKEY® 5-Way Binding Post Modules					
Keystone module is supplied with 5-way binding post with black stripe. Termination ends can include banana plugs or standard speaker wire AWG #10 or thinner.	Off white	1	10	NKBPBIWY	Call
Keystone module is supplied with 5-way binding post with red stripe. Termination ends can include banana plugs or standard speaker wire AWG #10 or thinner.	Off white	1	10	NKBPRIWY	Call
NETKEY® 3.5 mm Stereo Connectors					
Keystone module supplied with 1 3.5-mm (1/8") stereo headset solder-type connector	Off white	1	10	NK35MSSIW	Call
Keystone module supplied with 1 3.5-mm (1/8") stereo headset coupler	Off white	1	10	NK35MSCIW	Call
D-Subminiature Inserts					
1/3 insert with 9-pin female-to-female coupler	Off white	1	10	CHD9CIWY	25099861
1/3 insert with 15-pin female-to-female coupler, SVGA capable	Off white	1	10	CHD15HDICIWY	25099855
1/3 insert with 15-pin HD screw down DB connector mount to a printed circuit board; terminates on site, SVGA capable	Off white	1	10	CHD15HDSCIWY	25097249
Blank Module					
Blank keystone module to reserve space for future use	Off white	10	50	NKBMIW-X	Call

Note: For other colors, replace suffix IW with EI (electric ivory), WH (white), IG (international gray) or BL (black)

NETKEY® Faceplates, Modular Furniture Faceplates and Surface Mount Boxes

NETKEY® Faceplates, Modular Furniture Faceplates and Surface Mount Boxes

NETKEY® outlet products feature a selection of flush mount and sloped communication faceplates, furniture faceplates and surface mount boxes. These provide a broad range of solutions that are easily installed and offer absolute modularity. All products provide an aesthetically pleasing solution that will complement all types of environments.

Features and Benefits

- Accept all NETKEY® modules for copper, fiber, coax and audio/video applications
- Superior design provides lower-profile, higher-density outlet products, creating cost-effective solutions for moves, adds and changes
- Outlet solutions consist of a variety of faceplate styles and port densities, as well as surface mount boxes



Description	Color	Std. Pkg. Qty.	Std. Ctn. Qty.	Mfg. Part No.	Graybar ID
Blank and Empty Inserts					
1/3 blank insert, reserves space for future upgrades	Off white	1	10	CHB2MIW-X	97170677
2-module space, 1/3 size, flat insert accepts 2 NETKEY® modules	Off white	1	10	NKHF2MIW-X	Call
2-module space, 1/2 size, sloped insert accepts 2 NETKEY® modules	Off white	1	10	NKHS2IW-X	25081817
2-module space, 1/2 size sloped, shuttered insert accepts 2 NETKEY® modules	Off white	1	10	NKHS2SIW-X	Call
Classic Series Faceplate Frames					
Single gang faceplate frame accepts 2 1/2-size module inserts or 3 1/3-size module inserts	Off white	1	10	CBIW	98348434
Double gang faceplate frame accepts 4 1/2-size module inserts or 6 1/3-size module inserts	Off white	1	10	CBIW-2G	98348435
Executive Series Faceplate Frames					
Single gang faceplate frame accepts 2 1/2-size module inserts or 3 1/3-size module inserts, supplied with labels and label cover/screw covers	Off white	1	10	CBEIWY	25093149
Double gang faceplate frame accepts 4 1/2-size module inserts or 6 1/3-size module inserts, supplied with labels and label cover/screw covers	Off white	1	10	CBEIW-2GY	25096613
NETKEY® Flush Mount Screw-On Communication Faceplates					
1-position single gang faceplate	Off white	1	10	NK1FNIW	25075763
2-position single gang faceplate	Off white	1	10	NK2FNIW	25075767
3-position single gang faceplate	Off white	1	10	NK3FNIW	Call
4-position single gang faceplate	Off white	1	10	NK4FNIW	25075758
NETKEY® Horizontal Communication Faceplates with Labeling					
2-position horizontal sloped faceplate	Off white	1	10	NK2HSFIWY	25148975
4-position horizontal sloped faceplate	Off white	1	10	NK4HSFIWY	Call
NETKEY® Module Frames and Modular Furniture Faceplate					
2-position screw mount "106" duplex module frame	Off white	1	10	NK2106MFIW	Call
4-position screw mount "106" duplex module frame	Off white	1	10	NK4106MFIW	22061474
4-position screw mount rectangular module frame	Off white	1	10	NK4RMFIW	22061234
4-position snap-on modular furniture faceplate	Off white	1	10	NK4MFIW	22061218

Note: For other colors, replace suffix IW with EI (electric ivory), WH (white) or BL (black)



PANDUIT® NETKEY® Solution

Voice, Data
and Video
Administration

NETKEY® Category 6, 5e
and 3 Jack Modules

PAN-PUNCH® Category 5e
Punchdown Kits

NETKEY® Data/Voice Modules

NETKEY® Category 6, 5e and 3 Jack Modules

NETKEY® network components provide a complete, standards-compliant cabling infrastructure solution for voice, data and video applications. NETKEY® modules feature the universal “keystone” latch design and are compatible with a wide assortment of faceplates, surface mount boxes and modular patch panels. When teamed with complementary PANDUIT® products, the NETKEY® solution covers all your needs from the telecommunication room to the work area with the proven innovation and quality you depend on from PANDUIT®

Features and Benefits

- Terminates four-pair 24 and 22 AWG solid unshielded twisted pair cable
- Maintains twists of UTP cable ensuring optimal channel and link performance
- Compatible with NETKEY® keystone faceplates, surface mount boxes and modular patch panels

Description	Mfg. Part No.	Graybar ID
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NETKEY® Category 6 Jack Modules

Category 6 RJ45, 8-position, 8-wire punchdown universal keystone jack 8-position module	NK688M*	Call
NETKEY® Category 6 punchdown jack module convenience pack that includes 25 punchdown jack modules in one container	NK688M*-Q	Call

NETKEY® Category 5e Jack Modules

Category 5e RJ45, 8-position, 8-wire lead frame universal keystone jack module	NK5E88M*Y	Call
NETKEY® Category 5e jack module convenience pack that includes 25 jack modules in one container	NK5E88M*-Q	Call

NETKEY® Category 3 Jack Modules

Category 3 RJ45, 8-position, 8-wire universal keystone jack module	NK388M**Y	Call
Category 3, RJ45 opening, 6-position, 6-wire USOC keystone jack module, works with RJ11 plug	NK366UM**Y	Call
Category 3, RJ45 opening, 6-position, 6-wire keystone jack module, works with RJ11 plug	NK366M**Y	Call

Note: * Category 6 and 5e colors available: Substitute * with IW (off white), EI (electric ivory), IG (international gray), WH (white), BL (black), OR (orange), GR (green), BU (blue), RD (red) and YL (yellow)
** Category 3 colors available: Substitute ** with IW (off white), EI (electric ivory), IG (international gray), WH (white) and BL (black)



NK688



NKNKEMIWY



NK66WH

PAN-PUNCH® Category 5e Punchdown Kits

The PAN-PUNCH® 110 system is a versatile punchdown system used to connect, manage, identify and cross-connect communications equipment wiring in telecommunications closets and main distribution frames. The PAN-PUNCH® 110 system is commonly used in both voice networks and data local area networks designed for use with unshielded twisted pair copper wire and cable. The PAN-PUNCH® 110 system can be used on jobs as small as 100-pair.

Features and Benefits

- Exceed TIA/EIA-568-B.2 Category 5e standard
- Field terminable
- Ideal for use in cross-connects and consolidation point applications
- Provide pre-packaged components necessary for termination
- Include required quantity of bases and connecting blocks, label holders and labels
- Available in 100 or 300 pair bases with 3, 4 or 5-pair connecting blocks

Description	Mfg. Part No.	Graybar ID
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PAN-PUNCH® 100 Category 5e System Termination Kits

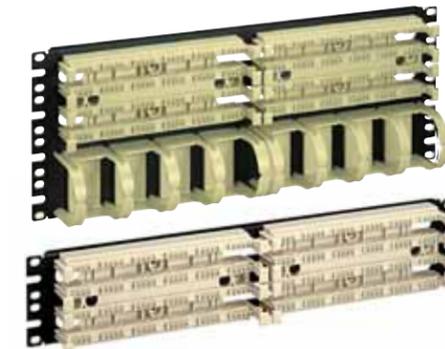
Field terminated, includes a base, 4-pair connector kit with 5 4-pair connectors and 1 5-pair connector per row of 25 pairs, 2 label holders, and 2 white designation labels	P110KB1004Y	25076268
Field terminated, includes a base, 5-pair connector kit with 5 5-pair connectors and 1 5-pair connector per row of 25 pairs, 2 label holders, and 2 white designation labels	P110KB1005Y	25076269
Field terminated, includes a base, 4-pair connector kit with 5 4-pair connectors and 1 5-pair connector per row of 25 pairs, 2 label holders, and 2 white designation labels	P110KB3004Y	25076270
Field terminated, includes a base, 5-pair connector kit with 5 5-pair connectors and 1 5-pair connector per row of 25 pairs, 2 label holders, and 2 white designation labels	P110KB3005Y	25076271

PAN-PUNCH® Category 5e Rack Mount Kits

2 100-pair bases premounted to panel	P110B100R2Y	25076260
2 100-pair bases with jumper troughs premounted to panel	P110B100R4WJY	25076262

PAN-PUNCH® Category 5e 19" Rack Mount Panel Kits

2 100-pair bases premounted to panel, 4-pair connector kit included with 5 4-pair connectors and 1 5-pair connector per row of 25 pairs	P110B1004R2Y	25076255
2 100-pair bases premounted to panel, 4-pair connector kit included with 5 5-pair connectors per row of 25 pairs	P110B1005R2Y	25076257
2 100-pair bases and jumper troughs premounted to 19" rack mount panel, 4-pair connector kit included with 5 4-pair connectors and 1 5-pair connector per row of 25 pairs	P110B1004R4WJY	25076256
2 100-pair bases and jumper troughs premounted to 19" rack mount panel, 4-pair connector kit included with 5 5-pair connectors per row of 25 pairs	P110B1005R4WJY	25076258





PANDUIT

Cable Management

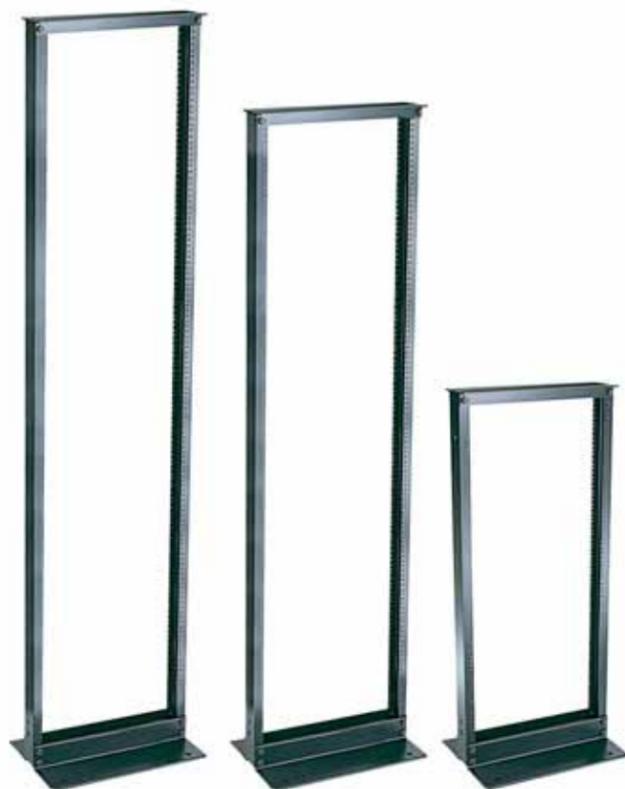
Two Post Standard Equipment

PANDUIT® two post standard equipment rack provides a reliable foundation for mounting telecommunication and data center equipment. The rack can be used to manage high-performance copper and fiber patch cables. This modular rack system is compatible with PANDUIT® horizontal and vertical cable managers. The two post standard equipment rack is part of a complete rack and cable management system that manages, protects and showcases your network investment.

Features and Benefits

- Rack space identification allows quick and easy location of rack mount items
- Rack is UL listed for 1,000 lbs. load rating
- Double-sided #12-24 EIA universal mounting hole spacing
- 24 #12-24 mounting screws included
- Can be used with all PANDUIT cable management and patch panel products in addition to any industry standard 19 in. components
- Paint piercing washers included to electrically bond rack for simplified grounding – for the complete grounding solution, see the *STRUCTUREDGROUND™* kits for racks

Description	Rack Units	Mfg. Part No.	Graybar ID
19" EIA rack, aluminum, #12 – 24 threaded equipment mounting rails, dimensions: 96.1" H x 20.3" W x 3" D	52	CMR19X96	25168225
19" EIA rack, aluminum, #12 – 24 threaded equipment mounting rails, dimensions: 84.0" H x 20.3" W x 3" D	45	CMR19X84	96031390
19" EIA rack, aluminum, #12 – 24 threaded equipment mounting rails, dimensions: 48.0" H x 20.3" W x 3" D	24	CMR19X47	96031391



Solutions to Manage, Protect and Showcase Your Network Investment

Two Post Standard Equipment



WE'VE TEAMED UP WITH PANDUIT TO GIVE YOU A NEW WAY TO DEAL WITH COMPETITORS.

IT'S CALLED CRIMPING THEIR STYLE.



PANDUIT CABLE CRIMPING TOOLS
Full line of battery powered, dieless, pneumatic and manual crimping tools featuring ergonomic designs, controlled cycle mechanisms and quick crimp cycle times for less stress on shoulders, hands and wrists.



Now more than ever, electrical contractors are asked to work harder, for less money. Work safer, to lower insurance costs. And work smarter, so they can get to the next job faster. Markets are shifting, and margins are shrinking. There's a shortage of qualified workers, and customers have never been more demanding. How can you juggle it all, while turning a profit on every job?

By using Graybar ESP, a new set of products and services to help you work with greater efficiency, safety and productivity. Like the one we're showcasing here. If you're ready to win more business, we're ready to show you the way.

For your free copy of *Winning More Business with ESP*, visit www.graybar.com/esp, ask your Graybar representative or call 1-800-GRAYBAR (472-9227).





Residential Structured Wiring

netSELECT® Structured Wiring Enclosures

netSELECT® Enclosures

netSELECT® is an innovative network solution that's perfect for any home. The netSELECT® system of multimedia products satisfies the need for a dependable, flexible system that can accommodate all of today's fast-changing voice, data and video requirements. This cost-effective solution incorporates all the quality you'd expect from Hubbell. Built-in flexibility makes it easy to upgrade and keep pace with evolving technologies.

Easy for Installers

An easy-to-hang cabinet featuring sheetrock spacing tabs and surface or recess mounts between 16 in. studs on center, 2 in. x 4 in. minimum. netSELECT® modular components snap into the box horizontally or vertically, optimizing space. A blank module provides flexibility for installers to use their own choice of manufacturer's active components. Also available: a reversible and lockable hinged door, ample cable entrance locations and a complete offering of jacks, plates and other work-station accessories.

Easy for Users

Built-in flexibility to upgrade and keep pace with evolving technologies. An easy-to-read label helps you to keep track of the system's infrastructure. The white powder-coat finish provides a clean, durable chassis to house all components.

Features and Benefits

- Flush or surface mounting (hardware provided)
- Tabs provided for setting standard sheetrock mounting depth
- Hinged cover can be mounted to swing from either side
- Integral trim ring on door hides rough-in hole providing a finished appearance
- Horizontal and vertical module mounting holes for maximum flexibility
- Unique 89D bracket mounting holes allow easy mounting of 66 blocks and peripherals
- Provisions to mount optional duplex power and lock kit available
- Integral cable management slots and tie-wraps provided to help dress cable runs
- Additional nylon pushpins provided to assist module mounting
- Material: 18-20 gauge steel
- Finish: white, powder coat
- UL and cULus listed 1863



netSELECT®
Infrastructure for
Digital Lifestyles

netSELECT® Structured
Wiring Enclosures

netSELECT® 10" Residential Networking Enclosure

Dimensions: 14.38" W x 10" H x 3.96" D Knock-outs: Top and bottom: four 1-1/2" NPT or completely open for custom KO plates or ganging

Configuration	Mfg. Part No.	Graybar ID
W/ hinged door	NSOBX10	25188822
W/ panel cover	NSOBX10BC	25188826
10" H enclosure only	NSOBX10B	25188827
Hinged door	NSOBX10D	25188828
Panel cover	NSOBX10C	25188831

netSELECT® 14" Pre-configured Network System

Basic home network kit includes: NSOBX14, NSOPTM8, NSOVDM4

Configuration	Mfg. Part No.	Graybar ID
W/ hinged door	NSOBNK14	25089327

netSELECT® 14" Residential Networking Enclosure

Dimensions: 14.38" W x 14" H x 3.96" D Knock-outs: Top: 1" Dia. & 1-1/2" NPT combo Bottom: one 1" Dia., one 1-1/2" NPT combo and one power kit knockout Back: two 3/4" NPT

Configuration	Mfg. Part No.	Graybar ID
W/ hinged door	NSOBX14	25089328
W/ panel cover	NSOBX14BC	25164801
14" H enclosure only	NSOBX14B	25188819
Hinged door	NSOBX14D	25188820
Panel cover	NSOBX14C	25188810
2" Deep door extension	NSOBX14X2	25188832

netSELECT® 28" Residential Networking Enclosure

Dimensions: 14.38" W x 28" H x 3.96" D Knock-outs: Top: five 1-1/2" NPT Bottom: two power kit knockouts Back: four 3/4" NPT

Configuration	Mfg. Part No.	Graybar ID
W/ hinged door	NSOBX28	25089329
W/ panel cover	NSOBX28BC	25188813
28" H enclosure only	NSOBX28B	25188821
Hinged door	NSOBX28D	25188817
Panel cover	NSOBX28C	25188811
2" Deep door extension	NSOBX28X2	25188830

netSELECT® 48" Residential Networking Enclosure

Dimensions: 14.38" W x 48" H x 3.96" D Knock-outs: Top: five 1-1/2" NPT Bottom: two power kit knockouts Back: none

Configuration	Mfg. Part No.	Graybar ID
W/ hinged door	NSOBX48	25089330

netSELECT® Enclosure Accessories

Description	Mfg. Part No.	Graybar ID
Standard power kit 15A 125V	NSOKP	25089333
Surge suppression power kit 15A 125V	NSOKPS	25089334
Chromed steel lock kit	FLOCK1	99431497





Residential Structured Wiring

netSELECT® Structured Wiring Modules

netSELECT® modular components enable the designer to select performance requirements specifically for the application. Modules snap horizontally or vertically into the enclosures for maximum flexibility and optimum space usage. netSELECT® modules support all of the networks present in modern residential construction. From the most basic telephone network to the most advanced fiber-to-the-home (FTTH) deployment, you are ready with netSELECT® modules.

Features and Benefits

- Module dimensions: 6.47 in. W x 2.95 in. H, except NSOMTM24 6.47 in. W x 6.00 in. H
- Module construction: metal or high-impact plastic
- Protected circuit boards
- Meets FCC Part 68 standard
- Finish: black powder coat or plastic
- UL and cULus listed 1863
- RJ-31x provided on all phone modules except NSO6P1DM



netSELECT®
Infrastructure for
Digital Lifestyles

netSELECT® Structured
Wiring Modules

netSELECT® Telephone Modules

Description	Termination Style	Mfg. Part No.	Graybar ID
Primary telephone module, 8-port 4-line, w/ RJ-31x	110	NSOPTM8	25089335
Expansion telephone module, 8-port 4-line, RJ-45 jumper included	110	NSOETM8	25089332
Combination module, 6-port phone, 1 data	RJ-45	NSO6P1DM	25089324
Multi-line 24-port advanced module, includes 9 RJ-45 jumpers	RJ-45	NSOMTM24	25081716

netSELECT® Data Modules

Description	Mfg. Part No.	Graybar ID
Category 5e data module, 8-port	NSODM8	25069520
Category 6 data module, 8-port	NSODM8C6	25188850
Blank module for mounting network components adhesive Velcro®	NSOBM	25089326

netSELECT® Video Modules

Description	Mfg. Part No.	Graybar ID
4-Way coax splitter module, 1Ghz	NSOVDM4	25089337
4-Way coax splitter module, 2Ghz	NSOVDM42G	25089338
6-Way coax splitter module, 1Ghz	NSOVDM6	25089339
6-Way coax splitter module, 2Ghz	NSOVDM62G	25089340
8-Way coax splitter module, 1Ghz	NSOVDM8	25089341
8-Way coax splitter module, 2Ghz	NSOVDM82G	25089342
Fixed video amplifier module, 10dB w/ passive return	NSOVAMP	25089336

netSELECT® Audio Module and Volume Controls

Configuration	Color	Mfg. Part No.	Graybar ID
8 Room audio module, 200W RMS	—	NSOAM8	25089325
Rotary audio volume controller, 70W RMS, impedance matching	Ivory/white	NSORAVC	25081786
Slide audio volume controller, 70W RMS, impedance matching	Ivory/white	NSOSAVC	25081787

Note: NSOAM8 requires the use of impedance matching volume controls to prevent amplifier damage

netSELECT® Fiber 6-Pack Cassette Bracket and Adapters

Description	Mfg. Part No.	Graybar ID
Panel bracket adapter	NSOFSB	25081714
F-connector adapter panel, 6-port	FSPFP6X	25093711
Keystone adapter panel, 6-port	FSPHD6X	25093712

netSELECT® Combination Modules

Description	Mfg. Part No.	Graybar ID
6-Port telephone and video	NSOTVDM6	Call
6-Port telephone, video, and Category 5e	NSOTVDM6	Call
6-Port Category 5e upgrade kit	NSODK6	Call





Hubbell – netSELECT®

Residential Structured Wiring

netSELECT® Multimedia Delivery Products

netSELECT® duplex floor receptacles provide ample connections to service entertainment equipment and computers for family rooms and offices. netSELECT® wood floor boxes allow for the placement of electrical power or a combination of power and voice/data devices. Boxes easily mount into the floor and are height-adjustable (up to 3/4 in.) for optimal alignment and fit. UL listed E31999 and CSA Certified.

netSELECT® round non-metallic floor boxes offer an economical solution for electrical power or a combination of power and voice/data applications. These boxes were designed specifically for slab-on-grade installation. Quick and easy installation is assured using a push-in-place leveling system. After the box has been secured in concrete, cut for height, apply PVC glue and push the cover assembly into the box. No fasteners or adjustment screws required. UL listed E92074.

Features and Benefits

- Metal covers feature durable powder coating
- Recessed GFCI/decorator opening
- Cutout template provided to assure proper sub-flooring preparation
- UL listed E92074

netSELECT® Wood Floor Box – Kits

Description	Color/Material	Mfg. Part No.	Graybar ID
Duplex receptacle floor wood box kit, includes steel box, flange hinged door cover assembly with duplex receptacle, rating: 15A 125V, NEMA 5-15R	Almond	RF515AL	25183536
	Black	RF515BK	25183537
	Chestnut brown	RF515BN	25183535
	Stainless finish	RF515SS	25080891

netSELECT® Wood Floor Box – Covers

Description	Color/Material	Mfg. Part No.	Graybar ID
Flange and hinged door cover assembly, includes duplex receptacle, neoprene gaskets, for use with steel box RF500, rating: 15A 125V, NEMA 5-15R	Almond	RF506AL	25188858
	Black	RF506BK	25188856
	Chestnut brown	RF506BN	25188863
	Stainless finish	RF506SS	25080887

netSELECT® Wood Floor Box – Hinged Door Cover Only

Description	Color/Material	Mfg. Part No.	Graybar ID
Replacement door for RF515 and RF506 series	Almond	RF507AL	25188861
	Black	RF507BK	25188862
	Chestnut brown	RF507BN	25188854
	Stainless finish	RF507SS	25080889

netSELECT® Wood Floor Box – Box Only

Description	Color/Material	Mfg. Part No.	Graybar ID
Adjustable floor box 2-1/2" deep, 3 1/2" knockouts: 1 on bottom, one on each side, non-metallic sheathed cable clamps on each side	Steel	RF500	25080885



RF515



RF506



RF507

Features and Benefits

- 4-in. minimum concrete pour
- Recessed GFCI/decorator opening
- Self height and leveling ring, no adjustments
- UL listed E92074

netSELECT® Slab-On-Grade Cover Assembly

Description	Color/Material	Mfg. Part No.	Graybar ID
Includes duplex receptacle, gasket, floor leveling PVC ring, high-impact and chemically resistant nylon, factory pre-assembled for easy drop-in installation, rating: 15A 125V, NEMA 5-15R	Almond	RF406AL	25080881
	Black	RF406BK	25080882

netSELECT® Slab-On-Grade PVC Floor Box

Description	Color/Material	Mfg. Part No.	Graybar ID
Accepts 3/4" and 1" schedule 40 and schedule 80 PVC conduit, includes round box (4-7/8" dia. x 6" deep), four reducers, closure plugs, and concrete cover with locator flag	Gray	RF400	25080880

netSELECT® Slab-On-Grade Replacement Door Cover

Description	Color/Material	Mfg. Part No.	Graybar ID
Includes neoprene gasket to seal plug openings, replacement cover for RF406 series	Almond	RF407AL	25080883
	Black	RF407BK	25080884

netSELECT® Slab-On-Grade Low-Voltage Divider

Description	Color/Material	Mfg. Part No.	Graybar ID
For use in PVC box RF400, when JLOAD™ multimedia outlet is used	Gray	RF408	25080654



RF406BK



RF400



RF408BK



RF408



Residential Structured Wiring

netSELECT® Multimedia Delivery Products (Continued)

netSELECT® slim fit and GFCI fit surface boxes enable receptacles and voice/data products to be surface mounted exactly where they are needed. Similar to under-cabinet lighting products, these surface boxes provide a precise fit – horizontally or vertically.

Features and Benefits

- Available with nylon or metal cover
- Custom configurable, accepts any decorator style device
- Mounting hardware included
- UL listed E31999 and CSA certified

netSELECT® Slim Fit Box Under Cabinet Box

Description	Color/Material	Mfg. Part No.	Graybar ID
Offers the slimmest, sleekest, most stylish option for low-profile, out-of-sight mounting, devices sold separately	Stainless steel	RU100SS	25081527
	White metal	RU100W	25081528
	White nylon	RU170W*	25081529

NOTE: * Steel box with nylon cover

netSELECT® GFCI Fit Under Cabinet Box

Description	Color/Material	Mfg. Part No.	Graybar ID
Designed specifically for GFCI or JLOAD™ accommodation where internal wiring space is needed, devices sold separately	Stainless steel	RU200SS	25081530
	White metal	RU200W	25081531
	White nylon	RU270W*	25081532

NOTE: * Steel box with nylon cover

netSELECT® Delivery Accessories

Description	Color/Material	Mfg. Part No.	Graybar ID
JLOAD™ multimedia outlet specifically designed to provide power, Cat. 5e and coax in a single gang box, requires adjustable box RF500, perfect for HDTV and computer use where a combination of power and data are needed, includes decorator frame, voltage divider, one Cat. 5e, one F-connector and one power receptacle 15A 125V, NEMA 5-15R	Black	RJ650WH	25081600

NOTE: Additional configurations and colors available (20 amp, unloaded, tamper resistant)



RU100SS



RU100W



RU200W



RJ650WH

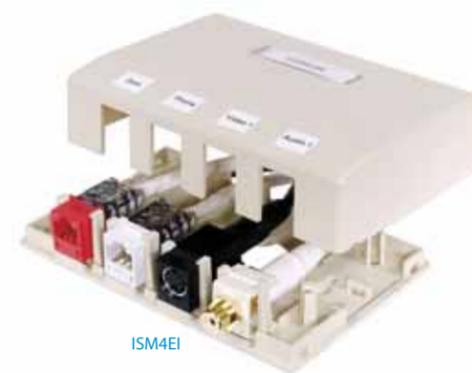
Surface Mount Boxes

Surface mount boxes are a convenient way to deliver voice, data and AV when in-wall wiring is not practical. Available in one, two, four, six and 12-port configurations. They can be customized with multimedia snap-fit connectors, available separately.

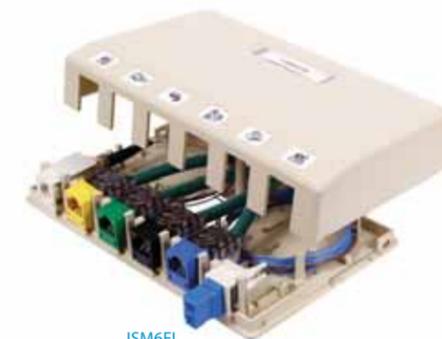
Features and Benefits

- Low-profile design
- Accepts multimedia connectors
- Provided with double-sided tape and mounting screws for easy installation
- Constructed with a high-impact resistant, flame-retardant polymer
- UL and cUL listed. ANSI/TIA/EIA-606A compliant

Description	Size	Color	Mfg. Part No.	Graybar ID
Surface mount box	1-Port	Ivory	ISM1EI	22078931
		White	ISM1W	22075933
	2-Port	Ivory	ISM2EI	22074524
		White	ISM2W	22075934
	3-Port	Ivory	ISM3EI	Call
		White	ISM3W	Call
	4-Port	Ivory	ISM4EI	22074626
		White	ISM4W	22075936
	6-Port	Ivory	ISM6EI	22078492
		White	ISM6W	25059184
	12-Port	Ivory	ISM12EI	25080417
		White	ISM12W	25131029



ISM4EI



ISM6EI

netSELECT®
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Digital Lifestyles

netSELECT® Multimedia
Delivery Products
(Continued)

Surface Mount Boxes





Residential Structured Wiring

Decorator Wall Plates

Nylon Standard Size

All nylon decorator wallplates feature pre-inserted captive screws for faster assembly, up to six-gang. No more dropped or lost screws.

Nylon wallplates are designed for durability and easy cleaning. Standard sized wallplates are 1/8 in. larger to give you that extra coverage to hide rough box openings. The depth is 1/4 in. so that it will comfortably fit over the device even on imperfect installations or on retrofit work.

Features and Benefits

- No more dropped or lost screws
- All nylon decorator plates feature pre-inserted captive screws for faster assembly, up to six-gang
- Virtually unbreakable nylon construction
- Curved corners blend into any interior
- Reinforcement ribs for stiffness
- Smooth wallplate for easy cleaning
- UL listed E92074, CSA certified



NP263W

netSELECT® Decorator Wall Plates

Description	Color/Material	Mfg. Part No.	Graybar ID
1-Gang, 1-decorator	Almond	NP26AL	25077613
	Black	NP26BK	25077614
	Brown	NP26	25077578
	Gray	NP26GY	25077615
	Ivory	NP26I	25077616
	Light almond	NP26LA	25077617
2-Gang, 2-decorator	Almond	NP262AL	25077580
	Black	NP262BK	25077581
	Brown	NP262	25077579
	Gray	NP262GY	25077582
	Ivory	NP262I	25077583
	Light almond	NP262LA	25077584
3-Gang, 3-decorator	Almond	NP263AL	25077588
	Black	NP263BK	25077589
	Brown	NP263	25077587
	Gray	NP263GY	25077590
	Ivory	NP263I	25077591
	Light almond	NP263LA	25077592
	White	NP263W	25077275

Description	Color/Material	Mfg. Part No.	Graybar ID
4-Gang, 4-decorator	Almond	NP264AL	25077595
	Black	NP264BK	25077596
	Brown	NP264	25077594
	Gray	NP264GY	25077597
	Ivory	NP264I	25077598
	Light almond	NP264LA	25077599
5-Gang, 5-decorator	Almond	NP265AL	25077602
	Black	NP265BK	25077603
	Brown	NP265	25077601
	Gray	NP265GY	25077604
	Ivory	NP265I	25077605
	Light almond	NP265LA	Call
6-Gang, 6-decorator	Almond	NP266AL	25077608
	Black	NP266BK	25077609
	Brown	NP266	25077607
	Gray	NP266GY	25077610
	Ivory	NP266I	25077611
	Light almond	NP266LA	Call
	White	NP266W	25077612

Note: Some styles available in brass, brass plated, chrome and stainless steel.
Nylon mid-size plates available for 1,2,3 and 4 gang plates

Snap-On Wall Plates

More style in a snap. Snap-on wallplates offer a clean, elegant look that can be installed in seconds. Screw the mounting plate onto the device and press the snap-on cover into place.

Home elegance, commercial toughness. netSELECT® wallplates bring you an unparalleled combination of features, benefits and advantages. They are elegant enough for the home and tough enough to withstand the most rigorous environments.

Features and Benefits

- Smooth gloss finish
- Virtually unbreakable thermoplastic
- Easy to snap-on
- Multi-gang auto alignment
- UL listed E90274, CSA certified
- Elegant appearance
- Two-piece construction with subplate that attaches to the device and snap-on cover plate

netSELECT® Snap-On Wall Plates

Description	Color/Material	Mfg. Part No.	Graybar ID
1-Gang	Almond	RCW1AL	25081288
	Ivory	RCW1I	25081289
	Light almond	RCW1LA	25081290
	White	RCW1W	25081291
2-Gang	Almond	RCW2AL	25081292
	Ivory	RCW2I	25081293
	Light almond	RCW2LA	25081294
	White	RCW2W	25081295
3-Gang	Almond	RCW3AL	25081296
	Ivory	RCW3I	25081297
	Light almond	RCW3LA	25081298
	White	RCW3W	25081299
4-Gang	Almond	RCW4AL	25081300
	Ivory	RCW4I	25081301
	Light almond	RCW4LA	25081302
	White	RCW4W	25081303
5-Gang	Almond	RCW5AL	25081304
	Ivory	RCW5I	25081305
	Light almond	RCW5LA	25081306
	White	RCW5W	25081307
6-Gang	Almond	RCW6AL	25081308
	Ivory	RCW6I	25081144
	Light almond	RCW6LA	25081247
	White	RCW6W	25081248



RCW1AL

netSELECT®
Infrastructure for
Digital Lifestyles

Decorator Wall Plates

Snap-On Wall Plates



Residential Structured Wiring

Multimedia Frames and Plates

netSELECT™ decorator frames provide a stylized look for that finishing touch. Multimedia jacks insert into frame for custom configuration.

netSELECT™ multimedia face plates offer a perfect match to electrical wallplates for a consistent smooth finish look.

Features and Benefits

- Accepts AV and voice/data connectors
- Elongated strap-on frames for better wall box mounting
- High-impact-resistant thermoplastic
- UL listed 1863 – communication circuit accessory and CSA certified



NSP13I

NS613I

Multimedia Decorator Frames

Description	Color	Mfg. Part No.	Graybar ID
1-Gang, 2-Port, decorator frame	Almond	NS612AL	Call
	Ivory	NS612I	Call
	Light almond	NS612LA	Call
	White	NS612W	Call
1-Gang, 3-Port, decorator frame	Almond	NS613AL	Call
	Ivory	NS613I	Call
	Light almond	NS613LA	Call
	White	NS613W	Call
1-Gang, 4-Port, decorator frame	Almond	NS614AL	Call
	Ivory	NS614I	Call
	Light almond	NS614LA	Call
	White	NS614W	Call
1-Gang, 6-Port, decorator frame	Almond	NS616AL	Call
	Ivory	NS616I	Call
	Light almond	NS616LA	Call
	White	NS616W	Call
1-Gang, adapter .406" dia. hole, decorator frame	Almond	NS621AL	Call
	Ivory	NS621I	Call
	Light almond	NS621LA	Call
	White	NS621W	Call
1-Gang, adapter blank, decorator frame	Almond	NS620AL	Call
	Ivory	NS620I	Call
	Light almond	NS620LA	Call
	White	NS620W	Call

Multimedia Face Plates

Description	Color	Mfg. Part No.	Graybar ID	Description	Color	Mfg. Part No.	Graybar ID
*1-Gang, 1-port plate	Almond	NSP11AL	Call	*1-Gang, 6-port plate	Almond	NSP16AL	Call
	Ivory	NSP11I	Call		Ivory	NSP16I	Call
	Light almond	NSP11LA	Call		Light almond	NSP16LA	Call
	White	NSP11W	Call		White	NSP16W	Call
*1-Gang, 2-port plate	Almond	NSP12AL	Call	2-Gang, 4-port plate	Almond	NSP24AL	Call
	Ivory	NSP12I	Call		Gray	NSP24GY	Call
	Light almond	NSP12LA	Call		Light almond	NSP24I	Call
	White	NSP12W	Call		White	NSP24W	Call
*1-Gang, 3-port plate	Almond	NSP13AL	Call	2-Gang, 6-port plate	Almond	NSP26AL	Call
	Ivory	NSP13I	Call		Gray	NSP26GY	Call
	Light almond	NSP13LA	Call		Light almond	NSP26I	Call
	White	NSP13W	Call		White	NSP26W	Call
*1-Gang, 4-port plate	Almond	NSP14AL	Call				
	Ivory	NSP14I	Call				
	Light almond	NSP14LA	Call				
	White	NSP14W	Call				

Note: *Configurations are also available in mid-size when a slightly larger plate is required.

Voice, Data and A/V Connectors

netSELECT® voice/data jacks provide for a wide range of applications ranging from high-performance data demands of Cat. 6 and Cat. 5e, to simple voice grade USOC jacks.

Features and Benefits

- Easy to terminate angled wiring towers
- Meets FCC Part 68
- Meets ANSI/TIA - Cat. 6 and Cat. 5e standards
- UL listed and CSA certified

Description	Color	Mfg. Part No.	Graybar ID
Category 6 jack	Almond	NSJ6AL	25089310
Category 6 jack	Black	NSJ6BK	25089312
Category 6 jack	Blue	NSJ6B	25089311
Category 6 jack	Gray	NSJ6GY	25089313
Category 6 jack	Ivory	NSJ6I	25089314
Category 6 jack	Light almond	NSJ6LA	25089438
Category 6 jack	Orange	NSJ6OR	25089315
Category 6 jack	White	NSJ6W	25089316
Category 5e jack	Almond	NSJ5EAL	25089303
Category 5e jack	Black	NSJ5EBK	25089305
Category 5e jack	Blue	NSJ5EB	25089304
Category 5e jack	Gray	NSJ5EGY	25089306
Category 5e jack	Ivory	NSJ5EI	25089307
Category 5e jack	Light almond	NSJ5ELA	25089436
Category 5e jack	Orange	NSJ5EOR	25089308
Category 5e jack	White	NSJ5EW	25089309
Category USOC jack	Almond	NSJUAL	25089317
Category USOC jack	Black	NSJUBK	25089319
Category USOC jack	Blue	NSJUB	25089318
Category USOC jack	Gray	NSJUGY	25089320
Category USOC jack	Ivory	NSJUI	25089321
Category USOC jack	Light almond	NSJULA	25089440
Category USOC jack	Orange	NSJUOR	25089322
Category USOC jack	White	NSJUW	25089257

Note: Available in red, yellow and green.

Category 6 and 5e jacks are available in 25 packs.



NSJ6W



NSJ5EW



NSJUW

netSELECT®
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Digital Lifestyles

Multimedia Frames
and Plates

Voice, Data and
A/V Connectors





Residential Structured Wiring

Audio Video Snap-Fits

Features and Benefits

- Quick and secure snap-in design
- Use with multimedia plates and decorator frames
- cULus listed 1863 – communication circuit accessory

Audio Video Connectors

Description	Color	Mfg. Part No.	Graybar ID
*Gold F-type coupler bulkhead, female to female	Almond	SFFGAL	25131165
	Ivory	SFFGEI	25019258
	Light almond	SFFGLA	25131299
	White	SFFGW	25019263

Note: *Available in recessed design

Description	Color	Mfg. Part No.	Graybar ID
Nickel F-type coupler bulkhead, female to female	Almond	NSF70AL	25131164
	Ivory	NSF70I	98415464
	Light almond	NSF70LA	25131298
	White	NSF70W	99442127
*RCA gold pass through, female to female, red interior	Almond	SFRCRFFAL	25130938
	Ivory	SFRCRFFEI	25131284
	Light almond	SFRCRFFLA	25131294
	White	SFRCRFFW	25131285

Note: *Available in recessed design

Description	Color	Mfg. Part No.	Graybar ID
*RCA gold pass through, female to female, white interior	Almond	SFRCWFFAL	25130939
	Ivory	SFRCWFFEI	25030198
	Light almond	SFRCWFFLA	25131295
	White	SFRCWFFW	25131272

Note: *Available in recessed design

Description	Color	Mfg. Part No.	Graybar ID
*RCA gold pass through, female to female, yellow interior	Almond	SFRCYFFAL	25130940
	Ivory	SFRCYFFEI	25131274
	Light almond	SFRCYFFLA	25131296
	White	SFRCYFFW	25131276

Note: *Available in recessed design

Features and Benefits

- Quick and secure snap-in design
- Use with multimedia plates and decorator frames
- cULus listed 1863 – communication circuit accessory

Audio Video Connectors (Continued)

Description	Color	Mfg. Part No.	Graybar ID
Snap-in RCA 110 punch down, red interior	Black	SFRC110R	22071157
	Black	SFRC110W	22057262
	Black	SFRC110Y	22053244
Gold speaker post connectors, with black stripe	Almond	SFSPGBKAL	25131160
	Ivory	SFSPGBKEI	25131277
	Light almond	SFSPGBKLA	25130349
	White	SFSPGBKW	25131278
Gold speaker post connectors, with red stripe	Almond	SFSPGRAL	25131161
	Ivory	SFSPGREI	25131279
	Light almond	SFSPGRLA	25130722
	White	SFSPGRW	25131280
*Gold speaker black banana plug	Black	SPPBK10	25130953
* Gold speaker red banana plug	Red	SPPR10	25130952
S-video, female to female connectors	Black	SFSVBK	22072349
S-video, 110 terminals, Blank insert	Black	SFSV110BK	22057840
	Almond	SFSBAL10	25109570
	Black	SFSBBK10	25109571
	Gray	SFSBGY10	25109569
	Ivory	SFSBEI10	25109572
	Light almond	SFSBLA10	25109573
	White	SFSBW10	25100228

Note: *1 bag contains 10 blank inserts



SFFGEI



NSF70I



SFRCRFFAL



SFSPGBKAL



SFSPGBKAL



SFSPGBKAL



SPPR10



SFRC110R



SFSVBK



SFSV110BK

netSELECT®
Infrastructure for
Digital Lifestyles

Audio Video Snap-Fits





Residential Structured Wiring

Molded-In Data/Telephone/Video Products

Designed to complement decorator styling, these jacks offer voice and Cat. 5e devices to fit within a decorator wallplate. Create a look to match your voice/data, switch and receptacle devices. Coax video and combination jacks complement multimedia needs in a 1-gang decorator opening. Designed for voice, these devices provide economical phone outlet placement.

Features and Benefits

- High-impact resistant thermoplastic frame
- Meets FCC part 68
- UL listed 1863 - communication circuit
- Accessory and CSA certified

Description	Color	Mfg. Part No.	Graybar ID
*Decorator frame, one RJ11 jack, 6-position, 4-conductor, screw terminations	Almond	NS770AL	25086078
	Black	NS770BK	25089284
	Brown	NS770	25089283
	Gray	NS770GY	25089285
	Ivory	NS770I	25089286
	Light almond	NS770LA	25081782
	White	NS770W	25086077
<i>Note: *Available in 6 Position - 6 Conductor, 1 and 2 port versions</i>			
Decorator frame, one Cat. 5e 110 punch down, one RJ11 jack, 6-position, 4-conductor, screw terminations	Almond	NS784AL	25086079
	Black	NS784BK	25089297
	Brown	NS784	25089296
	Gray	NS784GY	25089298
	Ivory	NS784I	25089299
	Light almond	NS784LA	25081784
	White	NS784W	25086080
*Decorator frame, single F-type coupler bulkhead female to female, single port	Almond	NS780AL	25086082
	Ivory	NS780I	25089256
	Light almond	NS780LA	25081783
	White	NS780W	25086081
<i>Note: * Available in 2 port version</i>			
Decorator frame, one RJ11 jack, 6-position, 4-conductor, one F-type coupler bulkhead, female to female	Ivory	NS783I	25089295
	White	NS783W	25086086
Decorator frame, one Cat. 5e 110 punch down, one F-type coupler bulkhead, female to female	Almond	NS785AL	25086083
	Black	NS785BK	25086084
	Brown	NS785	25089300
	Gray	NS785GY	25089301
	Ivory	NS785I	25089302
	Light almond	NS785LA	25081785
	White	NS785W	25086085



TV and Telephone Wall Jacks

Description	Color	Mfg. Part No.	Graybar ID
*1-Gang plate, one RJ11 jack, 6-position, 4-conductor, screw terminations	Almond	NS730AL	25089453
	Brown	NS730	25089452
	Ivory	NS730I	25086088
	Light almond	NS730LA	25081775
	White	NS730W	25086087
1-Gang plate, one RJ11 jack, 6-position, 6-conductor, screw terminations	Almond	NS732AL	25089455
	Brown	NS732	25089454
	Ivory	NS732I	25089456
	Light almond	NS732LA	25081776
	White	NS732W	25089457
*1-Gang plate, duplex RJ11 jacks, 6-position, 4-conductor, screw terminations	Almond	NS742AL	25089462
	Ivory	NS742I	25089463
	White	NS742W	25089464
1-Gang plate, duplex RJ11 jacks, 6-position, 6-conductor, screw terminations	Almond	NS744AL	25089465
	Ivory	NS744I	25089466
	White	NS744W	25089255
Wall phone jack quick connect, 4-conductor, punch down termination tool included	Almond	NS721AL	25089441
	Ivory	NS721I	25089442
	White	NS721W	25089443
Wall phone jack, 6-position, 4-conductor, screw terminations	Almond	NS722AL	25089444
	Ivory	NS722I	25089445
	White	NS722W	25089446
Wall phone jack, 6-position, 6-conductor, screw terminations	Almond	NS725AL	25089448
	Ivory	NS725I	25089449
	White	NS725W	25089450
Wall phone jack quick connect, 6-position, 4-conductor, punch down termination tool included	Stainless steel	NS723SS	25089447
Wall phone jack, 6-position, 4-conductor, screw terminations	Stainless steel	NS726SS	25089451

*Note: *Mid-size plates available*



netSELECT®
Infrastructure for
Digital Lifestyles

Molded-In Data/
Telephone/Video Products





Hubbell – netSELECT®

Residential Structured Wiring

Molded-In Data/Telephone/Video Products (Continued)

TV and Telephone Wall Jacks (Continued)

Description	Color	Mfg. Part No.	Graybar ID
1-Gang plate, one F-type coupler bulkhead, female to female, one RJ11 jack, 6-position, 4-conductor	Ivory	NS7471	25089263
	White	NS747W	25089264
*1-Gang plate, F-type coupler bulkhead, female to female, one RJ11 jack, 6-position, 6-conductor	Almond	NS748AL	25185360
	Ivory	NS748I	25089265
	Light almond	NS748LA	25081778
	White	NS748W	25089266
*1-Gang plate, single F-type coupler bulkhead, female to female	Almond	NS750AL	25089267
	Ivory	NS750I	25089268
	Light almond	NS750LA	25081779
	White	NS750W	25089269
1-Gang plate, duplex F-type coupler bulkhead, female to female	Almond	NS752AL	25089273
	Ivory	NS752I	25089274
	White	NS752W	25089275
1-Gang triple play plate, one Cat 5e 110 punch-down, one RJ-11 6-position, one F-type coupler	Almond	NS790AL	
	Black	NS790BK	
	Brown	NS790	
	Grey	NS790GY	
	Ivory	NS790I	
	Light almond	NS790LA	
	White	NS790W	

Note: *Mid-size plates available



NS748I



NS750I



NS752I



NS790I

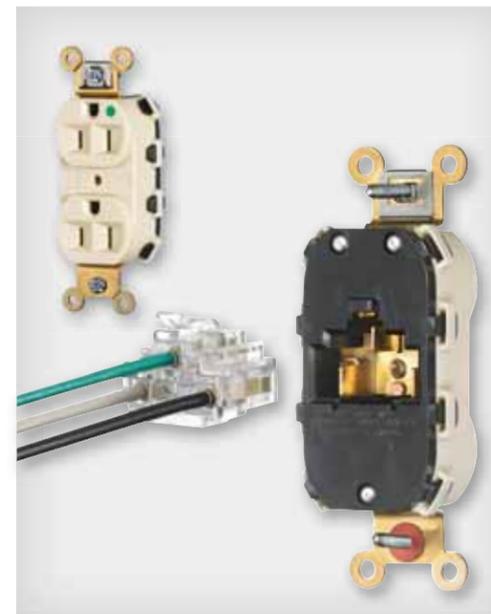
GRAYBAR & HUBBELL ARE GIVING YOU A NEW WAY TO DEAL WITH COMPETITORS.

IT'S CALLED MAKING BETTER CONNECTIONS.



Now more than ever, electrical contractors are asked to work harder, for less money. Work safer, to lower insurance costs. And work smarter, so they can get to the *next* job faster. Markets are shifting, and margins are shrinking. There's a shortage of qualified workers, and customers have never been more demanding. How can you juggle it all, while turning a profit on every job?

By using *Graybar ESP*, a new set of products and services to help you work with greater efficiency, safety and productivity. If you're ready to win more business, we're ready to show you the way. Starting with a better way to connect with a better receptacle.



The new HUBBELL® SNAPConnect™. Snap in solid connections in 1/3 of the time. So your crew can do more, every day. For your next commercial or hospital project, simply rough in the pre-wired SNAPConnect terminal instead of pigtails. It's a consistent and reliable connection—just like Hubbell and Graybar. For more information about SNAPConnect, go to graybar.com/ESP.

netSELECT®
Infrastructure for
Digital Lifestyles

Molded-In Data/
Telephone/Video Products
(Continued)





Copper UTP and Fiber Optic Cable Solutions

LANmark-350™ Premium Category 5e Cable

Berk-Tek's LANmark-350™ premium Category 5e UTP cable is intended for high-speed Ethernet data, voice and CCTV applications up to 350 MHz. The guaranteed performance of this cable far exceeds the TIA/EIA-568-B.2 and ISO/IEC 11801 Category 5e horizontal cable requirements for PS-NEXT, attenuation, structural return loss, attenuation-to-crosstalk ration (ACR) and impedance, making it ideal for high-end transmission links supporting today's networking protocols.

Features

- Specified and tested
- Small, round design with unbonded pairs
- ETL verified and meets or exceeds TIA/EIA and ISO/IEC performance standards for Category 5e
- RoHS compliant

Benefits

- Reliably supports today's network protocols
- Reduced installation costs and maintenance
- Lower bit error rates, increases network efficiency and uptime

Description	Type	Mfg. Part No.	Graybar ID
Blue 1000', Tek Pak Box (other cable colors available)	CMP	10032065	96092573
	CMR	10032426	96087410



LANmark™-6 UTP Premium Category 6 Cable

Berk-Tek's newly redesigned LANmark™-6 provides you with minimally compliant Category 6 performance with physical characteristics similar to typical Category 5e UTP cables. With the removal of the center spline, LANmark-6 features a reduced diameter compared to other category 6 UTP cables. This means that the cable is smaller, lighter and easier to work with than ever before.

LANmark-6 is an ANSI/TIA/EIA Category 6 verified cable that is ideal for communication network applications needing up to gigabit networking speeds. For MDU applications, this cable is recommended for data, voice and high-bandwidth security cameras.

It is capable of transmitting applications, such as 1000BASE-T, and is ideal for network applications that extend to 250 MHz. LANmark-6 is available in both CMP and CMR and conforms to ANSI/TIA/EIA 568-B.2-1 Category 6 and ISO/IEC 11801 2nd edition class E Category 6 requirements.

Features

- Cost-effective, compact design with no center spline and an O.D. of 0.19 in.
- Meets the requirements of ANSI/TIA/EIA-568-B.2-1
- Usable bandwidth up to 250 MHz
- Delivered in compact, strong, easy-to-identify boxes

Benefits

- Provides Category 6 performance at a cost-effect, entry-level Category 6 price
- Provides additional usable bandwidth required for future applications
- Superior box design allows cable to be pulled easily from the box with minimum kinking
- Compact box design takes up less shelf space

Description	Type	Mfg. Part No.	Graybar ID
Blue 1000', Tek Pak Box (other cable colors available)	CMP	10136266	25101606
	CMR	10136342	25101611



Adventum Indoor/Outdoor Tight Buffer Cable

Berk-Tek's Adventum™ tight buffer cables (ATR or ATP) are designed specifically for FTTH, MDU and MTU deployments – riser or plenum. Each DryGel™ water-blocked buffer tube contains one or two, 900 µm tight-buffered fibers. With an O.D. of 0.25 in. and 300 lbs. of pulling tension, this cable is suitable for installation and operation in almost any FTTx application in duct. OFNR or OFNP rated, and no buffer tube fan-out kits are required. Direct termination is enabled. Jacket color options available.

Description	Mfg. Part No.	Graybar ID
Adventum tight-buffer plenum fiber, 002 fiber, enhanced single-mode	ATP002AB0707	Call
Adventum tight-buffer riser fiber, 002 fiber, enhanced single-mode	ATR002AB0707	Call



Outside Plant Riser Feeder Cable

Berk-Tek's Optical plant riser feeder cables (OPRF and OPRFT) are designed for subscriber drop applications where low-cost and easy-access solutions are demanded. The compact, water-blocked, gel-filled loose tube design is ruggedly designed for outside plant installations. Small diameter of 0.25 in. along with 300 lbs. tensile rating and OFNR riser-rating enables installations to go directly from outside plant to riser shaft with no transition point requirement. Each gel-filled buffer tube contains up to 12, 250 µm, individually colored fibers. The OPRFT offers an optional tracer wire for cable location in a direct buried or conduit installation environment.

Description	Mfg. Part No.	Graybar ID
Indoor/outdoor OPRF 2-fiber, enhanced single-mode design	OPRF002AB0403	Call
Indoor/outdoor OPRFT 2-fiber, enhanced single-mode with 26 AWG tracer wire	OPRFT002AB0403	Call



Oval Self-Supporting Flat Drop Cable

Berk-Tek's optical flat drop cable (OPFD) is designed especially for last mile, MDU, MTU and FTTx applications with one to 12 fibers. Designed for self-supporting from the pole to the building using standard wedge clamps, this cable allows rapid and reliable subscriber provisioning through pre-terminated assemblies, available with a choice of connectors. Supports low cable-plant maintenance and ease of installation.

Description	Mfg. Part No.	Graybar ID
Outdoor OPFD 2-fiber, enhanced single-mode design flat drop self-supporting cable	OPFD002AB0403	Call



Outside Plant Armored and Non-Armored Cable

Berk-Tek's line of all-dielectric or armored (corrugated steel armor) cables are stranded, loose tube cables available from two to 216 fibers. These cables are rated for 600 lbs. of pulling tension and are ideal for aerial, direct buried or in-conduit locations that are subjected to wide temperature variations. The cable core is dry blocked and the gel-filled buffer tube holds 12 fibers. These cables are compliant to Telcordia GR-20 and ICEA-640 for outside cabling systems.

Description	Mfg. Part No.	Graybar ID
Outdoor OPD 2-fiber, enhanced single-mode design	OPD002AB0403	Call



Cables for MDU Applications

LANmark-350™ Premium Category 5e Cable

LANmark™-6 UTP Premium Category 6 Cable

Adventum Indoor/Outdoor Tight Buffer Cable

Outside Plant Riser Feeder Cable

Oval Self-Supporting Flat Drop Cable

Outside Plant Armored and Non-Armored Cable



Belden® Multi-Dwelling Unit Solutions

Signal Transmission Products, Systems and New Generation® Building Management Products

Belden focuses on being the brand you trust for any number of signal transmission solutions – the brand you can depend on for the “right” signals. Repeatedly, Belden’s customers state that Belden is the brand they trust for dependable signal transmission. No matter the market – broadcast, CATV, networking, building management systems, security, industrial or residential – the name “Belden” has become synonymous with high quality and ensured reliability. Belden has earned its reputation as an expert solutions provider precisely because their customers are now, and have always been, their no. 1 priority. They make it their job to consistently supply innovative, standard-setting products upon which customers can rely. Belden offers the broadest selection of signal transmission products available. They provide all the data and support necessary to help you make the right decision for your multi-dwelling unit application. And, Belden products are readily available for use in your hotel, college campus, apartment complex or condominium, no matter where you are around the globe.

Belden is also evolving. They are taking their success in cable to all means of signal transmission technology: copper, optical fiber and wireless. And they have expanded their product offering to include complete system solutions, including connectivity, equipment enclosures, cable raceways and racks – a portion of which is shown on the following pages.

Audio/Video

Belden® Brilliance® Broadcast Products

Belden is certainly the biggest cable brand in broadcasting. From major network events such as the Olympics, space launches and presidential news conferences to everyday audio and video applications, Belden is the local, regional and national choice. Belden Brilliance cables mean ensured product quality, absolute signal integrity and no system downtime. The Belden Brilliance audio/video products encapsulated below are representative of a wide range of products for every conceivable broadcast and audio/video application.

RGB Component Video Cables

Miniature Hi-Res Coaxes

Description	Mfg. Part No.	Graybar ID
5 Miniature coaxes, 25 AWG (solid) tinned copper conductors, PVC inner/outer jackets, CMR	1279R	25018953
5 Miniature coaxes, 25 AWG (solid) tinned copper conductors, PVDF inner/PVC outer jackets, CMP	1279P	25061540

Banana Peel® Unjacketed Coax Bundled

Mini Hi-Res Component Video Cable

Description	No. of Conductors	Mfg. Part No.	Graybar ID
Plenum, foam FEB insulation, Flamarrest® jacket in colors 25 AWG solid .018" BC conductors Duobond® foil + TC interlocked serve shield 100%	3 Conductor	128253	Call
	4 Conductor	128254	Call
	5 Conductor	128255	Call
	6 Conductor	128256	Call

Note: Also available in riser rated and full size version.

Cable Tools

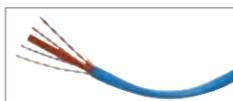
Compression and Cable Prep

Description	Mfg. Part No.	Graybar ID
Compression tool for BNC, RCA and F connectors	HCCT	Call
Cable stripping tool for RG-6, RG-59, mini RG-59 and RGB coaxial cable	HCST	Call

Connectors

One-piece, 75-Ohm, Male Connectors for 25 AWG Mini Hi-Res Coax Cables

Description	Mfg. Part No.	Graybar ID
BNC with nickel-plated body	1B25A	Call
RCA with nickel-plated body	1R25A	Call



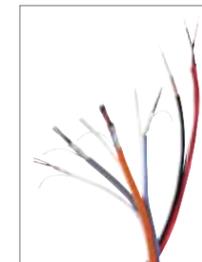
Belden®: Sending
All The Right Signals

Audio/Video

Building Management,
Alarm and Security

Building Management, Alarm and Security

Belden provides the broadest, most economical and reliable line of low voltage, electronic New Generation® cables for sound, control, alarm and security applications on the market today. And, behind each cable are years of research and development as well as Belden’s unequalled reputation for quality and service. Plus, Belden’s New Generation cables are also easy to work with because they include such installer-friendly features as sequential footage markings, rip cords, water-blocked options (for multi-conductor and coax cables) and tangle-free coil packages for easy cable payout.



Speaker Cables

Highly Stranded Multi-Conductor

Description	Mfg. Part No.	Graybar ID
2/C, 10 AWG bare high-conductivity ETP stranded (65 x 28) copper conductors, PVC jacket, CL2	5T00UP	25022619
2/C, 10 AWG bare high-conductivity ETP stranded (65 x 28) copper conductors, low smoke PVC jacket, CMP	6T00UP	25079528

Security and Alarm Cables

Description	Mfg. Part No.	Graybar ID
Unshielded multi-conductor (2/C), 12 AWG (stranded) bare copper conductors,	5000UE	25022685
Unshielded multi-conductor (2/C), 12 AWG (stranded) bare copper conductors, flamarrest jacket, CMP/CL2P	6000UE	99801392
Unshielded multi-conductor (2/C), 16 AWG (stranded) bare copper conductors, PVC jacket, CMR/CL3R	5200UE	99753218
Unshielded multi-conductor (2/C), 16 AWG (stranded) bare copper conductors, flamarrest jacket, CMP/CL2P	6200UE	99801401
Two overall shielded twisted pairs w/22 AWG (stranded) bare copper conductors, PVC jacket, CMR	5341FE	99801396

CCTV Camera/Surveillance Cables

Single Coax

Description	Mfg. Part No.	Graybar ID
1 RG 59/U type coax, 20 AWG solid bare copper conductor, PVC jacket, CMG	543945	99480639
1 RG 59/U type coax, 20 AWG solid bare copper conductor, Flamarrest jacket, CMP	643948	99913765

Banana Peel® Pan-Tilt-Zoom Composites

Description	Mfg. Part No.	Graybar ID
1 RG-59/U coax + 1 unshielded twisted pair + 2/C w/no overall jacket, CMR	500PTZ	22120584
1 RG-59/U coax + 1 unshielded twisted pair + 2/C w/no overall jacket, CMP	600PTZ	22120585

Access Control Cables

Composite Shielded Multi-Conductor (Lock Power, Card Reader, Door Contact, REX)

Description	Mfg. Part No.	Graybar ID
(1) 3-Pair, 22 AWG, stranded BC shielded	558AFS	22076523
(1) 2-Cond., 22 AWG, stranded BC shielded		
(1) 4-Cond., 22 AWG, stranded BC shielded		
(1) 4-Cond., 18 AWG, stranded, BC shielded with individual PVC jackets, no overall jacket, CMR, CEC		
(1) 3-Pair, 22 AWG, stranded, BC shielded	658AFS	22076524
(1) 2-Cond., 22 AWG, stranded BC shielded		
(1) 4-Cond., 22 AWG, stranded BC shielded		
(1) 4-Cond., 18 AWG, stranded BC shielded with individual Flamarrest jackets, no overall jacket, CMP, CMP FT6		
(1) 3-Pair, 18 AWG, stranded, BC shielded	538AFS	22120590
(1) 2-Cond., 18 AWG, stranded, BC shielded		
(1) 4-Cond., 18 AWG, stranded BC shielded		
(1) 4-Cond., 16 AWG, stranded, BC shielded with individual PVC jackets, no overall jacket, CMR		
(1) 3-Pair, 18 AWG, stranded BC shielded	638AFS	22120591
(1) 2-Cond., 18 AWG, stranded, BC shielded		
(1) 4-Cond., 18 AWG, stranded, BC shielded		
(1) 4-Cond., 16 AWG, stranded, BC shielded with individual Flamarrest jackets, no overall jacket, CMP, CMP FT6		

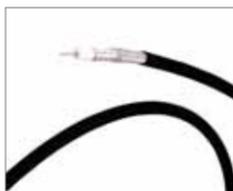


Belden® Multi-Dwelling Unit Solutions

Belden® Broadband Coax Products and Category 6 Solution

CATV Cables

Belden is a recognized leader in CATV/broadband cable technology, offering a full range of cost-effective products with outstanding performance for reliable, trouble-free signal transmissions. To meet the performance needs of this market, Belden has repeatedly offered innovative solutions to address all environmental and electrical performance conditions. These innovations include improved insulation materials, new shielding methods and breakthroughs in shielding-testing methodology. Whatever your need, Belden has the solution.



CATV Coax Cables

Single Coax

Description	Mfg. Part No.	Graybar ID
RG-6/U type coax, 18 AWG solid bare copper-covered steel conductor, quad shield, PVC jacket, CATV/CM	1189A	99881516
RG-6/U type coax, 18 AWG solid bare copper-covered steel conductor, quad shield, Flamarrest® jacket, CATVP/CMP	1189AP	99664324
RG-11/U type coax, 14 AWG solid bare copper-covered steel conductor, quad shield, PVC jacket, CATV/CM	1617A	99911934
RG-11/U, 14 AWG solid bare copper-covered steel conductor, quad shield, PFDJ jacket, CATVP/CMP	7999AP	25079530

Banana Peel® Category 5e Composite

Description	Mfg. Part No.	Graybar ID
2 Cat 5e 4-pair UTPs + 2 RG-6/U type coaxes with quad shields, PVC inner jackets, no overall jacket, CMR	7913S	22051345

Category 6 Networking System

Belden Category 6 Solutions feature cable with a patented design that bonds the individual insulated conductors of each pair along the full length of the cable. This bonded construction delivers Installable Performance®. That is, Bonded-Pair cables are consistent in the distance between the conductors and in the amount of twist, throughout the installation process, so they deliver the same, superior electrical performance both before and after the cable's installation.

Belden Category 6 Solutions also feature punch-down GigaFlex® Modules, which are based on a patented Encapsulated Lead Frame technology that ensures long-term reliability, as well as extremely stable transmission performance. Lead frame technology is inherently more reliable than traditional connector technologies as it uses a single, uninterrupted copper contact path through the connector. The design of the GigaFlex Module allows signals to pass virtually unchanged through the connector, providing greater system performance.



AX101613

Patch Panels

Ultra High Density PS6+ Patch Panels

Description	Mfg. Part No.	Graybar ID
1U, 48-port	AX102490	25085934

GigaFlex Patch Panels

Description	Mfg. Part No.	Graybar ID
1U, 24-port	AX101611	22001869
2U, 48-port	AX101613	22001868

GigaBIX Termination Kit and Components

Termination Kit

Description	Mfg. Part No.	Graybar ID
72-Port	AX101470	99722918

Rack Mount Panels

Description	Mfg. Part No.	Graybar ID
GigaBIX rack mount termination kit, 48-port	AX101985	25042087
GigaBIX rack mount panel, 48-port	AX101986	Call

Basic Components

Description	Mfg. Part No.	Graybar ID
GigaBIX connector, 6-port	AX101447	99709035
GigaBIX connector, 25-pair	AX101448	99722915
GigaBIX mount, 12-connector	AX101472	99709034
GigaBIX wire guard	AX101486	99722921
GigaBIX designation strip	AX101483	99709038
GigaBIX termination bar	AX101719	25062620

GigaBIX Cable Management

Distribution Frame and Accessories

Description	Mfg. Part No.	Graybar ID
1152 Ports/4800 pairs	AX102073	Call
Frame end kit	AX102082	Call
Frame overhead kit	AX102145	Call

GigaBIX X-Connect Cable

Cross-Connect Wire

Description	Mfg. Part No.	Graybar ID
4-Pair, 1,000' (305 m), spool	24570521	99970686
4-Pair, 1,000' (305 m), spool-in-box	24577B15	Call



GigaFlex CAT6+ Modules

Modules

Description	Mfg. Part No.	Graybar ID
MDVO-style, T568A/B, gray	AX101063	99505740
MDVO-style, T568A/B, white	AX101065	99503019
MDVO-style, T568A/B, black	AX101066	99505742
MDVO-style, T568A/B, red	AX101068	99505745
MDVO-style, T568A/B, yellow	AX101069	99505746
MDVO-style, T568A/B, green	AX101070	99505749
MDVO-style, T568A/B, blue	AX101071	99505752

Category 6+ Cables

600E

Description	Mfg. Part No.	Graybar ID
Non-plenum, polyolefin insulation, gray Haloarrest® jacket	7851A	Call
Plenum, FEP Teflon® insulation, flamarrest® jacket	7852A	Call

Note: Available in red, orange, yellow, green, blue, black, white or gray

Enhanced Category 6 Nonbonded-Pair Cables

GigaFlex 2400 Cable

Description	Mfg. Part No.	Graybar ID
4-Pair, 24AWG solid bare copper conductors, twisted pairs, PVC jacket, CMR	White (reel-in-box) 24566315	Call
	Blue (reel-in-box) 24566915	Call
	White (reel) 24566345	97279176
	Blue (reel) 24566945	97279177
4-Pair, 24 AWG solid bare copper conductors, twisted pairs, LSZH polymer alloy, CMR	Purple (reel) 24568005	Call
4-Pair, 24AWG solid bare copper conductors, twisted pairs, plenum, low-smoke PVC jacket, CMP	White (reel-in-box) 24567315	Call
	Blue (reel-in-box) 24567915	Call
	White (reel) 24567345	97279174
	Blue (reel) 24567945	97279175

Tools

Description	Mfg. Part No.	Graybar ID
GigaFlex connecting tool	AX100749	99509602
Bonded-pair cable preparation tool	1797B	Call
Termination station	AX101852	Call
Outlet release tool	AX101185	99723008

Belden®: Sending
All The Right Signals

CATV Cables

Category 6 Networking
System



Belden® Multi-Dwelling Unit Solutions

Belden® Category 6 Solution

Category 6 Networking System (Continued)

Workstation Outlets

MediaFlex Faceplate Kits

Description	Port Flush	Mfg. Part No.	Graybar ID
Gray	2-Port flush	AX101778	22060710
	4-Port flush	AX101782	22060742
	6-Port flush	AX101786	22061790
Almond	2-Port flush	AX101779	22060715
	4-Port flush	AX101783	22060744
	6-Port flush	AX101787	22061796
Elec. white	2-Port flush	AX101780	22060736
	4-Port flush	AX101784	22060747
	6-Port flush	AX101788	22061798
Black	2-Port flush	AX101781	22060739
	4-Port flush	AX101785	22061800
	6-Port flush	AX101789	22061799
White	2-Port flush	AX102621	25085962
	4-Port flush	AX102622	25085923
	6-Port flush	AX102623	25085931
Ivory	2-Port flush	AX102566	25085922
	4-Port flush	AX102567	25085924
	6-Port flush	AX102568	25085932

MediaFlex Plates

Description	Gang	Mfg. Part No.	Graybar ID
Gray	Single gang	AX101745	22060566
	Double gang	AX101869	Call
Almond	Single gang	AX101746	22060568
	Double gang	AX101870	22126562
Elec. white	Single gang	AX101747	22060571
	Double gang	AX101871	22126563
Black	Single gang	AX101748	22060584
	Double gang	AX101872	Call
White	Single gang	AX102608	Call
	Double gang	AX102609	Call
Ivory	Single gang	AX102569	Call
	Double gang	AX102570	Call

MediaFlex MDVO (style) Inserts

Description	Flush/Angled	Mfg. Part No.	Graybar ID
2-Port, gray, bag of 10 units	Flush	AX101749	22060588
	Angled	AX101753	22060606
2-Port, almond, bag of 10 units	Flush	AX101750	22060589
	Angled	AX101754	22060608
2-Port, elec. white, bag of 10 units	Flush	AX101751	22060592
	Angled	AX101755	22060610
2-Port, black, bag of 10 units	Flush	AX101752	22060602
	Angled	AX101756	22060612
2-Port, white, bag of 10 units	Flush	AX102612	Call
	Angled	AX102613	Call
2-Port, ivory, bag of 10 units	Flush	AX102572	Call
	Angled	AX102573	Call

MediaFlex GigaFlex Inserts

Description	Mfg. Part No.	Graybar ID
2-Port, gray	AX101765	22060413
2-Port, almond	AX101766	22060426
2-Port, elec. white	AX101767	22060427
2-Port, black	AX101768	22060444
2-Port, ivory	AX102574	Call

Workstation Outlets (Continued)

MediaFlex Filler Inserts

Description	Unit	Mfg. Part No.	Graybar ID
Gray, bag of 10 units	1-Unit	AX101757	22060373
	2-Unit	AX101761	22060377
Almond, bag of 10 units	1-Unit	AX101758	22060374
	2-Unit	AX101762	22060379
Elec. white, bag of 10 units	1-Unit	AX101759	22060375
	2-Unit	AX101763	22060380
Black, bag of 10 units	1-Unit	AX101760	22060376
	2-Unit	AX101764	22060405
White, bag of 10 units	1-Unit	AX102614	Call
	2-Unit	AX102615	Call
Ivory, bag of 10 units	1-Unit	AX102576	Call
	2-Unit	AX102577	Call

Modular Cords

GigaFlex CAT6+ Modular Cords

Description	Color	Mfg. Part No.	Graybar ID
0.6 m (2')	Blue	AX350037	22069524
	White	AX350043	22069530
	Gray	AX350049	22069546
	Green	AX350055	22069553
	Red	AX350061	22069560
	Yellow	AX350067	22069566
1.2 m (4')	Blue	AX350038	22069525
	White	AX350044	22069531
	Gray	AX350050	22069547
	Green	AX350056	22069554
	Red	AX350062	22069561
	Yellow	AX350068	22069568
2.1 m (7')	Blue	AX350039	22069526
	White	AX350045	22069538
	Gray	AX350051	22069548
	Green	AX350057	22069555
	Red	AX350063	22069562
	Yellow	AX350069	22069569
3.0 m (10')	Blue	AX350040	22069527
	White	AX350046	22069540
	Gray	AX350052	22069549
	Green	AX350058	22069557
	Red	AX350064	22069563
	Yellow	AX350070	22069570
4.6 m (15')	Blue	AX350041	22069528
	White	AX350047	22069543
	Gray	AX350053	22069550
	Green	AX350059	22069558
	Red	AX350065	22069564
	Yellow	AX350071	22069571
7.6 m (25')	Blue	AX350042	22069529
	White	AX350048	22069545
	Gray	AX350054	22069551
	Green	AX350060	22069559
	Red	AX350066	22069565
	Yellow	AX350072	22069572

4-pair, 23 AWG Solid, T568A/B-Open

Description	Mfg. Part No.	Graybar ID
4.6 m (15')	AX350160	22079414
7.6 m (25')	AX350161	22079416
10.6 m (35')	AX350162	22079417
15.0 m (50')	AX360163	Call

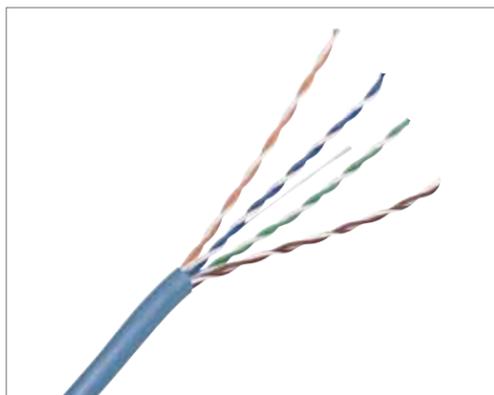


Belden® Multi-Dwelling Unit Solutions

Belden® Category 5e Solution

Category 5e Networking System

Belden's Category 5e Solutions were developed to support high-speed network applications such as Gigabit Ethernet – providing clear bandwidth up to 160 MHz, an increase of 60% over the Cat. 5e standard of 100 MHz. The Cat 5e solution features workstation outlets such as GigaFlex modules (which are based on Belden's patented encapsulated lead frame technology) and MediaFlex outlets which provide the ultimate in flexibility since the line consists of a number of workstation outlet components that are modular and snap together easily to respond to any present or future network needs (see also Category 6 MediaFlex products listed previously). Although not listed here, Belden also offers a full line of MediaFlex multi-media inserts for RCA, SVHS, SVGA and fiber applications.



CAT5E HD Patch Panels

Description	Mfg. Part No.	Graybar ID
1U, 24-port, black, T568B/A	AX100452	97203313
2U, 48-port, black T568B/A	AX100454	97203309

Flex Patch Panel

Description	Mfg. Part No.	Graybar ID
1U, 24-port, black	AX101456	99722852
2U, 48-port, black	AX101458	99722858

Patch Boxes Category 5E

Description	Mfg. Part No.	Graybar ID
PS5E HD-110, 12-port, black, T568B/A	AX100491	97203315
MDVO, 12-port, black	AX100282	99723005

CAT5E GigaFlex Modules

Description	Style	Mfg. Part No.	Graybar ID
T568A/B, gray	MDVO-style	AX101044	99488160
	Keystone-style	AX101307	99722879
T568A/B, almond	MDVO-style	AX101045	99488162
	Keystone-style	AX101308	99722881
T568A/B, white	MDVO-style	AX101046	99488163
	Keystone-style	AX101309	99722882
T568A/B, black	MDVO-style	AX101047	99488164
	Keystone-style	AX101310	99722885
T568A/B, orange	MDVO-style	AX101048	99488166
	Keystone-style	AX101311	99722886
T568A/B, red	MDVO-style	AX101049	99488169
	Keystone-style	AX101312	99722888
T568A/B, yellow	MDVO-style	AX101050	99488172
	Keystone-style	AX101313	99722891
T568A/B, green	MDVO-style	AX101051	99488175
	Keystone-style	AX101314	99722892
T568A/B, blue	MDVO-style	AX101052	99488177
	Keystone-style	AX101315	99722893

Workstation Outlets

MediaFlex GigaFlex Inserts

Description	Port	Color	Mfg. Part No.	Graybar ID
PS5E	2-Port	Gray	AX101769	22060470
	2-Port	Almond	AX101770	22060472
	2-Port	Elec. white	AX101771	22060478
	2-Port	Black	AX101772	22060480
	2-Port	Ivory	AX102575	Call

Interface Plates

Description	Color	Mfg. Part No.	Graybar ID
Flush, 2-port	Gray	AX101431	99722993
Flush, 2-port	Almond	AX101432	99711689
Flush, 2-port	White	AX101433	99712563
Flush, 2-port	Black	AX101434	99722997
Flush, 2-port	Ivory	AX102582	25106054
Flush, 4-port	Gray	AX101435	99723000
Flush, 4-port	Almond	AX101436	99711690
Flush, 4-port	White	AX101437	99712564
Flush, 4-port	Black	AX101438	99723002
Flush, 4-port	Ivory	AX102583	25092953
Flush, 6-port	Gray	AX101439	99723003
Flush, 6-port	Almond	AX101440	99711691
Flush, 6-port	White	AX101441	99712565
Flush, 6-port	Black	AX101442	99723004
Flush, 6-port	Ivory	AX102584	25092954

MDVO Adapters

Description	Color	Mfg. Part No.	Graybar ID
MDVO side entry box, 2-port	Almond	A0645272	97127834
	White	A0645273	97143844
MDVO 106 adaptor, 2-port	Almond	AX100305	98289475
	White	AX100306	98289476
MDVO 106 adaptor, 4-port	Almond	AX100309	98289481
	White	AX100310	97221850
MDVO deco adapter, 3-port	Almond	A0409652	98408102
MDVO modular furniture, 3-port	Almond	A0407072	93176608
MDVO modular furniture adapter, 4-port	Almond	AX100926	99509237
MDVO modular furniture adapter, 4-port	White	AX100927	99509143

Stainless Steel Faceplates

Description	Style	Mfg. Part No.	Graybar ID
1-Port stainless steel SG faceplate	Keystone-style	AX102005	25055819
1-Port stainless steel SG faceplate	studded for phone		
	Keystone-style	AX102006	Call
2-Port stainless steel SG faceplate	Keystone-style	AX102007	25072042
3-Port stainless steel SG faceplate	Keystone-style	AX102008	Call
4-Port stainless steel SG faceplate	Keystone-style	AX102009	Call
6-Port stainless steel SG faceplate	Keystone-style	AX102010	Call
4-Port stainless steel DG faceplate	Keystone-style	AX102011	Call
6-Port stainless steel DG faceplate	Keystone-style	AX102012	Call
12-Port stainless steel DG faceplate	Keystone-style	AX102013	Call

Belden®: Sending
All The Right Signals

Category 5e Networking
System



Belden® Multi-Dwelling Unit Solutions

Belden® Category 5e Solution

Category 5e Networking System (Continued)

Workstation Outlets

MDVO Multimedia Modules

Description	Mfg. Part No.	Graybar ID
LC duplex multimode	Gray – AX102209	Call
	Almond – AX102210	Call
	White – AX102211	Call
	Black – AX102619	Call
LC duplex single-mode	Gray – AX102213	Call
	Almond – AX102214	Call
	White – AX102215	25072036
	Black – AX102216	Call
SC simplex, multimode	Gray – A0407003	93176613
	Almond – A0407004	93176612
	White – A0407005	97143842
	Black – A0407006	93176610
	Ivory – AX102596	Call
SC duplex adapter, multimode	Almond – A0649254	98408134
ST compatible, multimode	Gray – A0407007	96066826
	Almond – A0407008	93176616
	White – A0407009	93176615
	Black – A0407010	93176614
	Ivory – AX102597	Call
MT-RJ, multimode	Almond – AX101467	Call
MT-RJ, single-mode	Blue – AX101466	Call
Coaxial, BNC	Gray – A0406995	Call
	Almond – A0406996	93176620
	White – A0406997	93176619
	Black – A0406998	93176618
	Ivory – AX102598	Call
Coaxial, video F	Gray – A0406999	93176625
	Almond – A0407000	93176624
	White – A0407001	93176623
	Black – A0407002	93176622
	Ivory – AX102599	25092957
RCA, feed-through, white insert	Gray – AX101823	Call
	Almond – AX101824	25072683
	White – AX101825	Call
	Black – AX101826	Call
	Ivory – AX102601	Call
RCA, feed-through, yellow insert	Gray – AX101827	Call
	Almond – AX101828	25072684
	White – AX101829	Call
	Black – AX101830	Call
	Ivory – AX102602	Call
RCA, feed-through, red insert	Gray – AX101831	Call
	Almond – AX101832	25072685
	White – AX101833	Call
	Black – AX101834	25074781
	Ivory – AX102603	Call
RCA, feed-through, black insert	Gray – AX101835	Call
	Almond – AX101836	Call
	White – AX101837	Call
	Black – AX101838	Call
	Ivory – AX102604	Call
SVHS, feed-through	Gray – AX101839	Call
	Almond – AX101840	25074791
	White – AX101841	Call
	Black – AX101842	Call
	Ivory – AX102605	Call
3.5 mm stereo	Gray – AX102624	Call
	Almond – AX102625	Call
	White – AX102626	Call
	Black – AX102627	Call
	Ivory – AX102628	Call

Workstation Outlets (Continued)

Modular Cords

Description	Color	Mfg. Part No.	Graybar ID
0.6 m (2')	Blue	AX350001	22037370
	White	AX350007	22037379
	Gray	AX350013	22037385
	Green	AX350019	22037436
	Red	AX350025	22037449
	Yellow	AX350031	22037442
1.2 m (4')	Blue	AX350002	22037372
	White	AX350008	22037380
	Gray	AX350014	22037386
	Green	AX350020	22037437
	Red	AX350026	22037450
	Yellow	AX350032	22037443
2.1 m (7')	Blue	AX350003	22037373
	White	AX350009	22037381
	Gray	AX350015	22037387
	Green	AX350021	22037438
	Red	AX350027	22037451
	Yellow	AX350033	22037444
3.0 m (10')	Blue	AX350004	22037375
	White	AX350010	22037382
	Gray	AX350016	22037388
	Green	AX350022	22037439
	Red	AX350028	22037452
	Yellow	AX350034	22037445
4.6 m (15')	Blue	AX350005	22037376
	White	AX350011	22037383
	Gray	AX350017	22037389
	Green	AX350023	22037440
	Red	AX350029	22037453
	Yellow	AX350035	22037446
7.6 m (25')	Blue	AX350006	22037378
	White	AX350012	22037384
	Gray	AX350018	22037390
	Green	AX350024	22037441
	Red	AX350030	22037454
	Yellow	AX350036	22037448

Enhanced Category 5e Bonded-Pair Cables

DataTwist® 350 UTP Cable

Description	Mfg. Part No.	Graybar ID
4-Pair, 24AWG solid bare copper conductors, PVC jacket, CM	1700A	Call
Siamese cable: 2 x 4 pair, 24AWG solid bare copper conductors, PVC jacket, CM	1702A	Call
4-Pair, 24AWG solid bare copper conductors, PVC jacket, CMR	1700R	Call
4-Pair, 24AWG solid bare copper conductors, plenum, Flammarrest® jacket, CMP	1701A	Call
Siamese cable: 2 x 4 Pair, 24AWG solid bare copper conductors, plenum, Flammarrest jacket, CMP	1703A	Call

Enhanced Category 5 Nonbonded-Pair Cables

GigaFlex 1200 Cable

Description	Mfg. Part No.	Graybar ID
4-Pair, 24 AWG solid bare copper conductors, twisted pairs, PVC jacket, CMR	White, box 24570166	97170893
	Blue, box 24570161	97120302
	White, reel 24570460	97279163
	Blue, reel 24570452	97279164
4-Pair, 24AWG solid bare copper conductors, plenum, low-smoke, PVC jacket, CMP	White, box 24570810	97120301
	Blue, box 24570800	97215344
	White, reel 24570808	97279142
	Blue, reel 24570812	97279143

Category 5e Nonbonded-Pair Cables

DataTwist® 5e UTP Cable

Description	Mfg. Part No.	Graybar ID
2-Pair, 24 AWG solid bare copper conductors, twisted pairs, PVC jacket, CM	1588A	Call
2-Pair, 24 AWG solid bare copper conductors, twisted pairs, PVC jacket, CMR	1588R	Call
4-Pair, 24 AWG solid bare copper conductors, twisted pairs, PVC jacket, CM	1583A	Call
4-Pair, 24 AWG solid bare copper conductors, twisted pairs, UV resistant PVC jacket, CMR/CMX	1594A	Call
4-Pair, 24 AWG solid bare copper conductors, twisted pairs, outside plant, black gel-filled polyethylene jacket	7997A	Call
2-Pair, 24 AWG solid bare copper conductors, twisted pairs, plenum, Flammarrest jacket, CMP & CMP FT6	1590A	Call
4-Pair, 24 AWG solid bare copper conductors, twisted pairs, plenum, Flammarrest jacket, CMP & CMP FT6	1585A	95006603
4-Pair, patch cable, 24 AWG stranded (7 x 32) bare copper conductors, twisted pairs, CM & CM FT1	1592A	Call

Enhanced Category 5 Nonbonded-Pair Cables

IBDN Plus 25-Pair Cat 5E UTP Cable

Description	Mfg. Part No.	Graybar ID
25-Pair, 24 AWG solid bare copper conductors, twisted pairs, gray PVC jacket, CMR	24576125	25054994
25-Pair, 24 AWG solid bare copper conductors, twisted pair, plenum, gray low-smoke PVC jacket, CMP	24577125	Call

Belden®: Sending
All The Right Signals

Category 5e Networking
System (Continued)



Belden® Multi-Dwelling Unit Solutions

Belden® Cable Management Solutions

Cable Management

Belden is the largest company of its kind, combining cable, connectivity, enclosures and many other product solutions for highly technical industries around the globe. As the exclusive occupant in this market position, Belden provides thousands of satisfied customers with over a billion dollars worth of trusted solutions every year, much of which supports the commercial networking sector. By combining our expertise in the design and manufacture of cable, connectivity, enclosures and related products, Belden now offers a product line of staggering magnitude, engineering triumphs and rich resources – worldwide.



High-Density Modular Racking

Aluminum Relay Racks

Description	Mfg. Part No.	Graybar ID
Aluminum relay rack, 19" WX84"H, #12-24 tapped hole, black	BHRR194	Call
Aluminum relay rack, 23" WX84"H, #12-24 tapped hole, black	BHRR234	Call

Single-sided Vertical Manager

Description	Mfg. Part No.	Graybar ID
High-density with doors, 3-5/8" W x 84" H, black	BHVVH003	Call
Low-density without doors, 3-5/8" W x 84" H, black	BHVL003	Call
High-density with doors, 6" W x 84" H, black	BHVVH006	Call
Low-density without doors, 6" W x 84" H, black	BHVL006	Call
High-density with doors, 10" W x 84" H, black	BHVVH010	Call
Low-density without doors, 10" W x 84" H, black	BHVL010	Call
High-density with doors, 12" W x 84" H, black	BHVVH012	Call
Low-density without doors, 12" W x 84" H, black	BHVL012	Call

Double-sided High-density Vertical Manager

Description	Mfg. Part No.	Graybar ID
High-density with doors, 3-5/8" W x 84" H, black	BHVHH03	Call
High-density with doors, 6" W x 84" H, black	BHVHH06	Call
High-density with doors, 10" W x 84" H, black	BHVHH10	Call
High-density with doors, 12" W x 84" H, black	BHVHH12	Call

High/Low-density Vertical Manager

Description	Mfg. Part No.	Graybar ID
High/low-density combination with front doors, 3-5/8" W x 84" H, black	BHVHL03	Call
High/low-density combination with front doors, 6" W x 84" H, black	BHVHL06	Call
High/low-density combination with front doors, 10" W x 84" H, black	BHVHL10	Call
High/low-density combination with front doors, 12" W x 84" H, black	BHVHL12	Call

Vertical Manager Doors (1 Pair)

Description	Mfg. Part No.	Graybar ID
3-5/8" W, black	BHDK03X	Call
6" W, black	BHDK06X	Call
10" W, black	BHDK10X	Call
12" W, black	BHDK12X	Call

Data Standard Enclosure 29" Wide x 30" Deep

The data standard is a freestanding enclosure that easily accommodates large components. The unit's mounting rails can be adjusted, after installation, from 19 in. EIA to 23 in. EIA spacing to allow for cable management and different depths of equipment. Among the many features and benefits of this modular unit are:

- Reversible doors: spring-loaded hinges allow quick change of door swing
- Lift-off side panels: flush surface lock fasteners permit quick disconnect and lift off
- Cable gland plate: adjustable bottom plate minimizes dirt and dust inside the enclosure
- Cable access top: features a 14.25 in. x 4 in. cable access rubber gland, which helps prevent dust from entering the enclosure
- Also features two 1.75 in. capped openings
- Tempered safety glass: strengthens door, and its easy-to-clean, non-scratching, tinted bronze color enhances overall appearance
- Grounding kit included

Data Standard Enclosure 29" Wide x 30" Deep

Description	Mfg. Part No.	Graybar ID
Data standard 84" black, 19" mounting, 10" fan top, glass door, vented rear door, two sides, 20 amp power strip	XST84-3-122226	Call
Data standard 84" black frames w/19" mounting	XST84-3-100000	Call

Swing Racks

Description	Mfg. Part No.	Graybar ID
84" Swing out distribution rack 179 lb. 34U	XSW-8419	Call
Power strip mounting kit (sold separately)	XSW-0100	Call
Top mounting wire basket (24" long) (sold separately)	XSW-0200	Call

Belden®: Sending
All The Right Signals

Cable Management



General Cable

Alarm and Security Cable

Carol® Brand Electronics Wire and Cable

General Cable's Carol® brand is the right solution for alarm and security wire and cable. Carol offers as broad an offering as anyone in the industry. Our alarm and security cable solutions make it easier to specify and sell the right cables for every application in this ever-growing market.

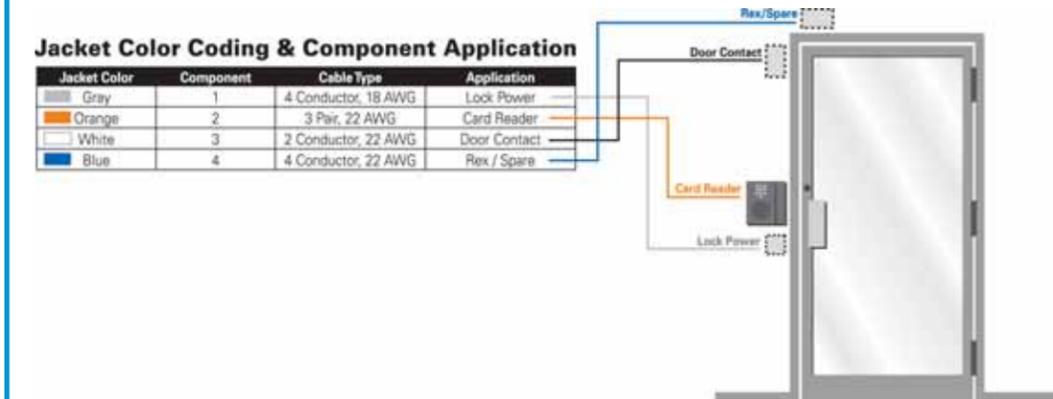
There are five basic areas where alarm and security cables are used. General Cable has the right product to serve every application, including:

- Access control
- Video surveillance/CCTV
- Data communications
- Fire alarm and life safety
- Home theater and burglar alarms

Our alarm and security cables offer solutions in all these major security applications markets, including:

- Commercial buildings
- Residential housing
- Business and office campus environments
- Public stadiums and arenas
- Airport, train, bus and other transportation hubs
- Schools, colleges and universities

Whatever the security application need Calls for, we have a cable that delivers the performance you need.



- Applications**
- Door controllers
 - Prox sensors
 - Key pads
 - Card readers
 - Gate access

Access Control

Description	Mfg. Part No.	Graybar ID
4 Shielded elements overall jacket access control plenum	4EPL4S	25166853
18/4 Conductor shielded plenum (lock power)	E2204S	97190074
22/6 Conductor shielded plenum (card reader)	E2106S	22086361
22/2 Conductor shielded plenum (door contact)	E2102S	97190066
22/4 Conductor shielded plenum (rex/spare)	E2104S	97190069
4 Shielded elements overall jacket access control riser	4ERS4S	25166855
18/4 Conductor shielded riser (lock power)	E2034S	97126459
22/6 Conductor shielded riser (card reader)	E2006S	97190048
22/2 Conductor shielded riser (door contact)	E2002S	97126448
22/4 Conductor shielded riser (rex/spare)	E2004S	97126451



- Applications**
- Intercoms
 - PA systems
 - Sound systems
 - Emergency phones
 - Speakers

Intercom/Security

Description	Mfg. Part No.	Graybar ID
18/4 Conductor unshielded plenum	C3113	97126475
18/2 Conductor unshielded riser	E1032S	97126436
18/4 Conductor unshielded riser	E1034S	97126437
18/6 Conductor unshielded riser	E1036S	Call
16/2 Conductor unshielded riser	E1042S	97126438
18/2 Conductor shielded riser	E2032S	97126455
18/4 Conductor shielded riser	E2034S	25097546
18/2 Conductor unshielded plenum	E3032S	97190085
18/4 Conductor unshielded plenum	E3034S	97190087
18/2 Conductor shielded plenum	E2202S	97126465
18/4 Conductor shielded plenum	E2204S	97190074
16/2 Conductor unshielded plenum	E3042S	25096083



- Applications**
- Burglar alarms

Burglar Alarm

Description	Mfg. Part No.	Graybar ID
22/2 Conductor CMR/CMX	C4408	Call
22/2 Stranded conductor CMR/CMX	C4408ST	Call
22/4 Solid conductor riser	C4412	Call
22/4 Stranded conductor CMR/CMX	C4412ST	25110146
22/2 Solid conductor CM/CMX*	C4408.86.XX	Call
22/2 Stranded conductor CM/CMX*	C4408ST.86.XX	Call
22/4 Solid conductor CM/CMX*	C4412.86.XX	Call
22/4 Stranded conductor CM/CMX*	C4412ST.86.XX	25110146

Note: *Burglar Alarm Cable in 500' Coil Packs



- Applications**
- Smoke detectors
 - Strobes/sirens
 - Pull stations
 - Microprocessor/Addressable Controlled Systems

Fire Alarm

Description	Mfg. Part No.	Graybar ID
18/2 Conductor unshielded riser FPLR	E1502S	97285977
16/2 Conductor unshielded riser FPLR	E1512S	97285975
14/2 Conductor unshielded riser FPLR	E1522S	97126141
12/2 Conductor unshielded riser FPLR	E1532S	97126145
18/2 Conductor shielded riser FPLR	E2502S	Call
16/2 Conductor shielded riser FPLR	E2522S	97126143
18/2 Conductor unshielded plenum FPLP	E3502S	97212169
16/2 Conductor unshielded riser FPLR	E3512S	97126149
14/2 Conductor unshielded plenum FPLP	E3522S	97126151
12/2 Conductor unshielded plenum FPLP	E3532S	97190088
18/2 Conductor shielded plenum FPLP	E3602S	97169637
16/2 Conductor shielded plenum FPLP	E3612S	98291319



- Applications**
- CCTV
 - Satellites
 - Digital video
 - Analog video
 - Switchers/multiplexers
 - Digital recorders

Video Surveillance/CCTV

Description	Mfg. Part No.	Graybar ID
RG 59/U SBC/95% + 18/2 unshielded pair CCTV plenum	C8030	25091262
RG 59 + 18/2 unshielded CATV/CM	C8028	25050978
RG 59 SBC/95% BC braid CMP plenum	495028	Call
RG 59 BC/95% BC braid CATV/CM	C1103	97169324
RG 59 SBC/95% BC braid CATV/CM	C1142	25091002
Low skew 24/4 conductor UTP cables for RGB video, CMR	E1842S	Call
Low skew 24/4 conductor UTP cables for RGB video, CMP	E3842S	Call

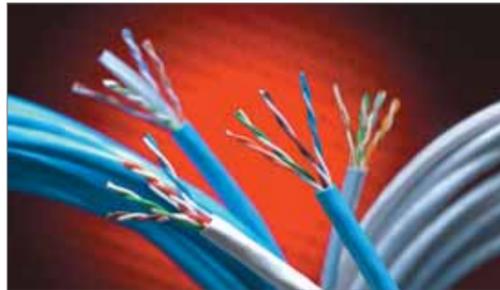


Solutions That
Keep You
Connected

GenSPEED® Category 5e
and Category 6 Cables

Alarm and Security Cable

GenSPEED® Category 5e and Category 6 Cables



General Cable's GenSPEED® cables are on the job wherever enhanced performance is critical – from 10 Gigabit Ethernet, token ring and broadband applications to patch panels, communications closets and plenum applications. We offer one of the most comprehensive lines of enhanced high-speed category products, including PanGen™ structured cabling system solutions.

Applications

- ANSI/TIA/EIA 568B (Category 5e)
- ISO 11801 (Category 5e)
- ANSI/ICEA S-90-661 (Category 5e)
- MIL-C-24640A water penetration requirements

GenSPEED® 5000 Category 5e Outside Plant Cable

Description	Mfg. Part No.	Graybar ID
GenSPEED 5000 Cat 5e outside plant, black	5136100	25089901

Applications

- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- 52/155 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- 4/16 Mb/s token ring

GenSPEED® 5000 Standards Compliant Category 5e Cable

Description	Mfg. Part No.	Graybar ID
GenSPEED 5000 Cat 5e riser, blue	5133299e	99507241
GenSPEED 5000 Cat 5e riser, white	5133255e	99507247
GenSPEED 5000 Cat 5e plenum, blue	5131278e	99507250
GenSPEED 5000 Cat 5e plenum, white	5131361e	99507256

Applications

- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- ANSI/TIA/EIA-854: 1000 BASE-TX
- 155 Mp/s, 1.2 Gb/s ATM
- ANSI X3.263: 100 Mb/s
- IEEE 802.3af DTE Power (PoE)
- 4/16 Mb/s token ring
- Digital video
- Broadband and baseband analog video

GenSPEED® 6000 Compliant Plus Category 6 Cable

Description	Mfg. Part No.	Graybar ID
GenSPEED 6000 Cat 6 riser, blue	7133764	25055776
GenSPEED 6000 Cat 6 riser, white	7133765	25055777
GenSPEED 6000 Cat 6 plenum, blue	7131760	25054167
GenSPEED 6000 Cat 6 plenum, white	7131761	25054169

Preparing Today's Homes for Multimedia Services

5eLAN™ Category 5e 4-pair #24 AWG UTP Cables

- Tested to 200 MHz.
- 25-year warranty
- ETL verified to Cat 5e
- TIA/EIA 568-B.2 Cat 5e horizontal cable



Plenum – Jacket OD .180" (4.57mm)

Color	MHK #	Mfg. Part No.	Graybar ID
White	M57547B	5EP4P24-WH-P-MOH-AP	99485084
Blue	M57546B	5EP4P24-BL-P-MOH-AP	99485085
Yellow	M57550B	5EP4P24-YL-P-MOH-AP	99569451
Gray	M57545B	5EP4P24-GY-P-MOH-AP	99485086

Non-Plenum – Jacket OD .190" (4.83mm)

Color	MHK #	Mfg. Part No.	Graybar ID
White	M57554B	5ENP4P24-WH-P-MOH-PV	99510661
Blue	M57553B	5ENP4P24-BL-P-MOH-PV	99510659
Yellow	M57556B	5ENP4P24-YL-P-MOH-PV	99569485
Gray	M57552B	5ENP4P24-GY-P-MOH-PV	99510657

RG-6 and RG-11 Dual and Quad Shield Coaxial Cables

RG-6 dual shield has a 60% braid coverage and RG-6 quad shield consists of a 60%-40% aluminum braid design. RG-11 cables offer a stronger signal, longer lengths and less loss than RG-6 cables for HDTV applications.

- Broadband cable access television and video cameras
- Community access television stations
- Closed circuit television
- Security cameras and security sectors
- K-12 education
- Healthcare



Plenum

RG-6/U

MHK Part #	Mfg. Part No.	Cable Type	Graybar ID
M71002	RG6-P-80-FATR-R-MOH	Dual	25100664
M71003	RG6-P-AQTR-R-MOH	Quad	25100665

RG-11/U

MHK Part #	Mfg. Part No.	Cable Type	Graybar ID
M71001	RG11-P-60-FATC-R-MOH	Dual	25100668
M71004	RG11-P-AQTC-R-MOH	Quad	25100669

Non-Plenum

RG-6/U

MHK Part #	Mfg. Part No.	Cable Type	Graybar ID
M71005	RG6-NP-60-FAFN-R-MOH	Dual	25100666
M71006	RG6-NP-AQFR-R-MOH	Quad	25100667

RG-11/U

MHK Part #	Mfg. Part No.	Cable Type	Graybar ID
M71007	RG11-NP-60-FAFR-R-MOH	Dual	25100670
M71008	RG11-NP-AQFR-R-MOH	Quad	25100671

Media Pull Bundled Cables

Tired of setting up multiple cable reels for a common cable pull?

Mohawk has the answer – media pull bundled cables or media pull parallel spooled cables, with ultimate versatility.

Media pull cables are multiples of individually jacketed components, such as four pair copper cable elements. The components are bundled together in a neat, clean and easy-to-use package.

Media pull parallel spooled cables are multiple cables of the same or different category that are spooled side by side on a reel, but not bound or cabled. This allows for ease of installation from set up to clean

up as all the required cables are on one reel. This is available in up to six components and can include fiber and coax as well.

Media pull is available in three to six components of plenum and non-plenum Cat 5e, Cat 6 copper and AdvanceLite fiber optic cables.



Cables For MDU
Applications

5eLAN Category 5e 4-Pair
#24 AWG UTP Cables

RG-6 and RG-11 Dual and
Quad Shield Coaxial Cables

Media Pull Bundled Cables



Optical Hardware
for MDU
Applications

OptiTect™ Indoor MDU
Local Convergence
Cabinets

MIC® Unitized Riser
Cables 36-144 Fibers

OptiSheath® MDU
Terminals

ClearCurve™ Rugged
Drop Cable

Design Considerations for MDU Installations

OptiTect™ Indoor MDU Local Convergence Cabinets

The OptiTect™ indoor MDU cabinet provides the same simple intuitive fiber management as the outdoor units, with its small footprint and compact design it facilitates deployment in tight spaces. Factory pre-connectorized stub cables permit easy installation; stubless also available. It can contain space for splicing feeder and distribution cables within the cabinet and offer the appropriate hardware for either wall or rack indoor mounting.

Features and Benefits

- Universal “one size fits all” splitter modules for all cabinet sizes
- Ample parking for unassigned splitter output legs
- Simple, intuitive fiber management
- Clear dust caps for easy VFL location in the distribution field
- Protective see-through cover for feeder inputs and modules



Description	Mfg. Part No.	Graybar ID
72 Fiber cabinet, pre-connectorized, SCAPC, feeder: 6 fiber LT indoor/outdoor dielectric 31 M (100'), distribution: one cable 72 fiber LT riser dielectric 8 M (25'), couplers: 0 no module	BMW631WF1K08W7500	Call
144 Fiber cabinet, pre-connectorized, SCAPC, feeder: 12 fiber LT indoor/outdoor dielectric 31 M (100'), distribution: one cable 144 fiber LT riser dielectric 8 M (25'), couplers: 0 no module	BDWP131WF1C08W7500	Call
288 Fiber cabinet, pre-connectorized, SCAPC, feeder: 48 fiber LT indoor/outdoor dielectric 31 M (100'), distribution: one cable 288 fiber LT riser dielectric 8 M (25'), couplers: 0 no module	BCWP431WF1E08W7500	Call
432 Fiber cabinet, pre-connectorized, SCAPC, feeder: 48 fiber ribbon riser indoor/outdoor dielectric 31 M (100'), distribution: one cable 432 fiber LT ribbon riser dielectric 8 M (25'), couplers: no module	BAWP431CF1A08Q7500	Call
1 x 32 Splitter, SCAPC connectors	UMB1CC6CZ6C21132	25071619
1 x 16 Splitter, SCAPC connectors	UMB1CC6CZ6C21116	Call

Note: *Various cable types and splitter configurations (including splice) available, SCUPC available, *Splitter loaded (option)

MIC® Unitized Riser Cables 36-144 Fibers

The MIC® unitized riser cables are multifiber cables with stranded subunits of six or 12 tight-buffered fibers surrounded by dielectric strength members and a flame-retardant outer jacket. These cables are ideal for routing inside buildings including in riser shafts, to telecommunications rooms and to workstations. They are available with interlocking armor for special applications requiring additional mechanical durability.

Features and Benefits

- Utilizes TBII® buffered fibers that enable easy, consistent stripping and facilitating termination
- All-dielectric construction requires no grounding or bonding
- Available in 50 µm, 62.5 µm, single-mode and hybrid versions
- OFNR and FT-4 listed for riser and general purpose use
- Available with Gigabit Ethernet and 10 Gigabit Ethernet performance
- ICEA S-83-596 test criteria



Description	Mfg. Part No.	Graybar ID
72 Fiber, single mode (1310/1550 nm), 12 fibers per subunit	072E81-T3131-24	22002011
96 Fiber, single mode (1310/1550 nm), 12 fibers per subunit	096E81-T3131-24	25187584
144 Fiber, single mode (1310/1550 nm), 12 fibers per subunit	144E81-T3131-24	25187585

OptiSheath® MDU Terminals

OptiSheath® MDU terminals, sometimes called fiber distribution terminals, create an interconnect between the distribution portion of the network and the individual drop cables that serve living units. In a high-rise MDU, they are connected back to the LCP by the building riser. For smaller MDU structures, the MDU terminal is connected to a shared outdoor LCP.

Features and Benefits

- Wide range of sizes to serve one, two or three floors in high-rise MDUs as well as small and large garden style MDUs; 6- to 48-fiber capacities
- Pre-stubbed, pre-connectorized distribution cable for splicing to main distribution or LCP stub cable
- Integrated splicing for drop cables
- Intuitive fiber management
- 100% parking for unused connectors
- Non-stubbed version for field-splicing the distribution side using bulk cable
- Easy mounting to any type wall, including rough and textured surfaces.



Description	Mfg. Part No.	Graybar ID
6 Port MDU terminal, 100' 6 fiber LT dielectric 31 M (100'), SCAPC	MDU0631066C-W4CG29	Call
12 Port MDU terminal, 100' 12 fiber LT dielectric 31 M (100'), SCAPC	MDU1231126C-W4CG29	Call
24 Port MDU terminal, 100' 24 fiber LT dielectric 31 M (100'), SCAPC	MDU2431246C-W4CG29	Call
48 Port MDU terminal, 100' 48 fiber LT dielectric 31 M (100'), SCAPC	MDU4831486C-W4CG29	Call

Note: *Various cable lengths available. SCUPC available

ClearCurve™ Rugged Drop Cable

ClearCurve™ rugged drop cables are part of a product family developed to solve the challenges associated with multi-dwelling unit (MDU) deployments. Enabled by a truly bend-insensitive fiber using Corning nanoStructures™ technology, this rugged drop cable can be bent to a minimum bend radius of 5 mm (0.2 in.) and be directly stapled to wall studs and rafters with standard cable staples and hardware-store variety staple guns without the need for special handling procedures or bend guides.

Features and Benefits

- Available in both indoor/outdoor and indoor-only riser-rated versions for general purpose horizontal and riser applications
- Available in convenient-sized packaging for easy field deployment
- Better than coax, ClearCurve rugged drop cable out performs typical RG-6 coaxial cables with a:
- Higher bandwidth-carrying capacity
- Smaller outer diameter
- Lighter weight
- Smaller minimum bend radius



Description	Mfg. Part No.	Graybar ID
Indoor/outdoor riser-rated cable with black jacket	001U3F-A 9403-29	25187640
Indoor-only, riser-rated cable with yellow jacket	001U31-A 9404-29	25187639





Connectivity Solutions

OmniReach®

ADC OmniReach® solutions for MDU applications provide high-performance interconnection of fiber cables and equipment at multiple dwelling units. These solutions support both low and high fiber count applications and include compact, environmentally protective enclosures, high-performance cable assemblies and connectivity components. With preterminated solutions from ADC, distribution nodes can be added to the network quickly and with increased reliability, reducing overall installation and long-term maintenance costs.

Features

- Provide secure indoor and outdoor environmental protection
■ Feature ADC high-performance components
■ Meet rigorous quality assurance standards, and are independently tested and certified to assure reliability
■ Feature superior fiber-management techniques for flexible re-arrangement
■ Accommodate a wide range of fiber counts and mounting/deployment applications
■ Available in high-density preterminated configurations
■ Designed to be compact and craft-friendly
■ Lower installation costs and accelerate construction of fiber network connections

Fiber Distribution Hub 3000

The OmniReach FDH 3000 is designed to meet and serve the distinct needs of diverse markets and customer segments. The unique design of the FDH 3000 provides for rapid connection between fiber optic cables and passive optical splitters in the outside plant segment of the network, facilitating fast service connection and reconfiguration, simplified network installations and improved installation efficiencies in the field.

Incorporates ADC Quality and Innovation

ADC is a high-quality, industry-leading brand you can rely on to future-proof your network, with a complete portfolio of FTTX products and services to ensure seamless deployment and maintenance over the life of the network. The FDH 3000 incorporates four time-tested elements that have long impacted reliability, flexibility and operational costs within the central office:

Features

- Bend radius protection
■ Intuitive cable routing
■ Easy fiber/connector access
■ Physical protection



FDH 3000 Small Cabinet

Table with 3 columns: Description, Mfg. Part No., Graybar ID. Lists various fiber configurations and their corresponding part numbers and call status.

FDH 3000 Medium Cabinet

Table with 3 columns: Description, Mfg. Part No., Graybar ID. Lists various fiber configurations for the medium cabinet and their corresponding part numbers and call status.

FDH 3000 Large Cabinet

Table with 3 columns: Description, Mfg. Part No., Graybar ID. Lists various fiber configurations for the large cabinet and their corresponding part numbers and call status.

Delivering Voice, Data and Video

OmniReach®

Fiber Distribution Hub 3000





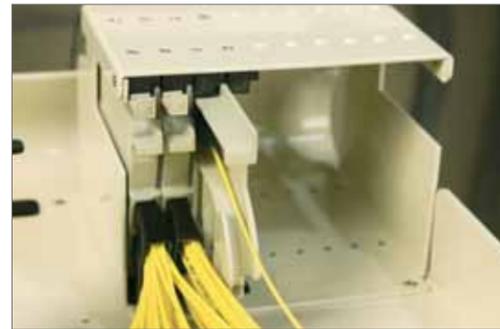
Connectivity Solutions

FDH 3000 Splitter Module

The FDH 3000 utilizes a mini plug-and-play splitter module which is common to all of the cabinets and features a common output length. This module allows for true plug-and-play functionality.

Features

- Standardized splitter modules for all cabinet sizes
- Features bend-optimized fiber and ruggedized extreme temperature cabling rated for material handling in cold temperatures and superior loss performance at 1490 and 1550 wavelengths
- Rated from -50° C to 140° F (60° C)
- Splitter types supported: 1 x 32, 2 x 32, 1 x 16, dual 1 x 16, 1 x 8, dual 1 x 8, 1 x 4, dual 1 x 4, 1 x 2 and dual 1 x 2
- Allows pass-through of up to two fibers per splitter set
- Splitters are easy to insert and remove without affecting adjacent splitters
- Reversible dust cap makes test and turn-up easy



Description	Mfg. Part No.	Graybar ID
1 x 32 Plug and play FDH3000 SC/APC splitter	FPS-MPP1AJJ	25078064
1 x 32 Plug and play FDH3000 SC/UPC splitter	FPS-MPP1ANN	25192550
1 x 16 Plug and play FDH3000 SC/APC splitter	FPS-MPP1CJJ	25161818
1 x 16 Plug and play FDH3000 SC/UPC splitter	FPS-MPP1CNN	25192551

FDH 3000 Accessories

216 Tools – Can Wrench Keys

Description	Mfg. Part No.	Graybar ID
Nickel plated brass can wrench key for use in loosening/tightening security screws	OSP-216BKEY1	25187388
Aluminum can wrench key for use in loosening/tightening security screws	OSP-216BKEY2	25187389
Plastic can wrench key for use in loosening/tightening security screws	OSP-216BKEY3	25187390

Note: For application with FDH 3000 and FDH 3000i

Cleaning Kits

Description	Mfg. Part No.	Graybar ID
Alcohol cleaning kit for cabinet connector and faces	FPC-CLNKIT1	25187386

Note: For application with FDH 3000 and FDH 3000i

Risers

Description	Mfg. Part No.	Graybar ID
6" Ground spacer/riser for extra small (24-96 fibers) cabinets, raises cabinet and additional 6"	FD3-RSRC06	25192480
6" Ground spacer/riser for small (72-288 fibers) and medium (72-432 fibers) cabinets, raises cabinet an additional 6"	FD3-RSRE06	25187391
6" Ground spacer/riser for large (72-864 fibers) cabinets, raises cabinet an additional 6"	FD3-RSRJ06	25187392

Note: All FDH 3000 cabinets ship with one riser

Hand Hole Kits

Description	Mfg. Part No.	Graybar ID
Hand hole and cover kit for extra small (24-96 fibers) cabinets	FMS-FD3C-KIT-A	25192481
Hand hole and cover kit for small (72-288 fibers) and medium (72-432 fibers) cabinets	FMS-ACE100-KIT-A	25187393
Hand hole and cover kit for large (72-864 fibers) cabinets	FMS-FD3J-KIT-A	25187396

Note: For application with FDH 3000 only

Pad Mount Frames

Description	Mfg. Part No.	Graybar ID
Extra small (24-96 fibers) pad mount frame	FD3-PMFC06	25187397
Small (72-288 fibers) and medium (72-432 fibers) pad mount frame	FD3-PMFE06	25187398
Large (72-864 fibers) pad mount frame	FD3-PMFJ06	25187399

Note: For application with FDH 3000 only

Additional Panel Options

Description	Mfg. Part No.	Graybar ID
Single armor loose tube 72 position APC SC	FD3MOD-072JGAB	25187400
Dielectric loose tube 72 position APC SC	FD3MOD-072JJAB	25192482
Single armor ribbon 72 position APC SC	FD3MOD-072JLAB	25192483
Dielectric ribbon 72 position APC SC	FD3MOD-072JTAB	25192484

Note: For application with FDH 3000 only

Delivering Voice,
Data and Video

FDH 3000 Splitter Module

FDH 3000 Accessories



ADC OmniReach® FTTX Solutions

Connectivity Solutions

Outdoor Fiber Distribution Terminal (oFDT)

The outdoor fiber distribution terminal (oFDT) is designed to terminate, splice and interconnect fiber optic cables in an outdoor environment. This terminal may be adapted to FTTX multiple dwelling unit (MDU) applications by mounting the enclosure to the exterior surface of a dwelling and connecting between the distribution cable and drops routed to individual living units.

The oFDT-24 features a unique “swing-frame” type design that separates the splicing in the rear from the patch access in the front of the swing frame. It allows for easy connector access to the rear connectors for maintenance and cleaning. This approach allows for a single door sealing method, ensuring reliability to withstand long-term outdoor conditions.

Features

- Designed to accommodate six, 12, 24 and 48 fibers including termination and parking
- Environmental enclosure provides heavy-duty protection from wind, rain and other contaminants
- Aluminum welded construction provides strength and resists corrosion
- Lightweight structure provides for easy installation
- Lockable tool or padlock offers flexible security options
- Cable entrance ports seal cable at entry
- Cable management and routing limits radius and adds strain relief
- Wall mount: efficient use of wall space
- All units come with a wall-mount bracket



Description	Mfg. Part No.	Graybar ID
6-Port outdoor FDT with parking, pigtails, SC/APC fanouts, no stub splice version	FDT-FJ306PPA000	25192485
12-Port outdoor FDT with parking, pigtails, SC/APC fanouts, no stub splice version	FDT-FJ312PPA000	25192486
24-Port outdoor FDT with parking, pigtails, SC/APC fanouts, no stub splice version	FDT-FJ324PPA000	25192487
6-Port outdoor FDT with parking, pigtails, OSP ribbon cable, SC/APC, OSP ribbon cable stub length = 100	FDT-FJ006PPS100	25192488
6-Port outdoor FDT with parking, pigtails, OSP ribbon cable, SC/APC, OSP ribbon cable stub length = 300	FDT-FJ006PPS300	25192489
6-Port outdoor FDT with parking, pigtails, OSP ribbon cable, SC/APC, OSP ribbon cable stub length = 500	FDT-FJ006PPS500	25192490
12-Port outdoor FDT with parking, pigtails, OSP ribbon stub, SC/APC OSP ribbon cable stub length = 100	FDT-FJ012PPS100	25192491
12-Port outdoor FDT with parking, pigtails, OSP ribbon stub, SC/APC OSP ribbon cable stub length = 300	FDT-FJ012PPS300	25192492
12-Port outdoor FDT with parking, pigtails, OSP ribbon stub, SC/APC OSP ribbon cable stub length = 500	FDT-FJ012PPS500	25192493
24-Port outdoor FDT with parking, pigtails, OSP ribbon cable, SC/APC, OSP ribbon cable stub length = 100	FDT-FJ024PPS100	25192494
24-Port outdoor FDT with parking, pigtails, OSP ribbon cable, SC/APC, OSP ribbon cable stub length = 300	FDT-FJ024PPS300	25192495
24-Port outdoor FDT with parking, pigtails, OSP ribbon cable, SC/APC, OSP ribbon cable stub length = 500	FDT-FJ024PPS500	25192496

MDU Rapid Fiber System

ADC's new OmniReach® rapid fiber system is designed to eliminate the unique challenges posed by today's multiple dwelling unit (MDU) buildings, when deploying FTTX networks. MDU buildings present service providers with diverse challenges such as varying cable pathways and distances between logical distribution points, demanding installation schedules and increased quality risks due to splicing. ADC's rapid fiber system is designed specifically to assist service providers when deploying MDU optical fiber distribution networks for a variety of architectures – and do so in less time and with less total cost on a consistent, high quality basis for every building.

ADC's rapid fiber system is the ultimate plug-and-play solution for delivering fast, durable and reliable service for mid- and high-rise MDUs and is available in multiple configurations to meet the unique requirements of each building.

ADC's OmniReach® rapid fiber distribution terminal serves as the final distribution point between the IFDH and living unit. It eliminates the need for splice cases and separate cable assemblies by integrating the patent-pending RapidReel™ cable payout system. The RapidReel system includes a built-in reel enabling quick payoff of up to 500 ft. of MT stubbed 12 or 24 count optical fiber cable from a single 6 in. x 9 in. wall box. The MT stub is pulled for installation into either the MDU collector enclosure or directly to an IFDH equipped with an MT patch panel. After installation, the spool flanges can be broken away and the wall box is secured to the wall safely storing the remaining slack cable. Use of factory terminated and tested MT connectors instead of splicing provides a plug and play environment that reduces labor costs and speeds project completion.

Description	Mfg. Part No.	Graybar ID
Rapid fiber distribution terminal, standard, 24 fiber, 12 count, APC, no tray, no pigtails, 3 mm loose tube riser (zipcord for 24 fiber), 100', 2 mm fanouts, MT connectors	RDT-SJ12J00B1002A	25192497
Rapid fiber distribution terminal, standard, 24 fiber, 12 count, APC, no tray, no pigtails, 3 mm loose tube riser (zipcord for 24 fiber), 200', 2 mm fanouts, MT connectors	RDT-SJ12J00B2002A	25192498
Rapid fiber distribution terminal, standard, 24 fiber, 12 count, APC, no tray, no pigtails, 3 mm loose tube riser (zipcord for 24 fiber), 300', 2 mm fanouts, MT connectors	RDT-SJ12J00B3002A	25192499
Rapid fiber distribution terminal, standard, 24 fiber, 12 count, APC, no tray, no pigtails, 3 mm loose tube riser (zipcord for 24 fiber), 400', 2 mm fanouts, MT connectors	RDT-SJ12J00B4002A	25192500
Rapid fiber distribution terminal, standard, 24 fiber, 12 count, APC, no tray, no pigtails, 3 mm loose tube riser (zipcord for 24 fiber), 500', 2 mm fanouts, MT connectors	RDT-SJ12J00B5002A	25192501
Rapid fiber distribution terminal, standard, 24 fiber, 24 count, APC, no tray, no pigtails, 3 mm loose tube riser (zipcord for 24 fiber), 100', 2 mm fanouts, MT connectors	RDT-SJ24J00B1002A	25192502
Rapid fiber distribution terminal, standard, 24 fiber, 24 count, APC, no tray, no pigtails, 3 mm loose tube riser (zipcord for 24 fiber), 200', 2 mm fanouts, MT connectors	RDT-SJ24J00B2002A	25192504
Rapid fiber distribution terminal, standard, 24 fiber, 24 count, APC, no tray, no pigtails, 3 mm loose tube riser (zipcord for 24 fiber), 300', 2 mm fanouts, MT connectors	RDT-SJ24J00B3002A	25192505
Rapid fiber distribution terminal, standard, 24 fiber, 24 count, APC, no tray, no pigtails, 3 mm loose tube riser (zipcord for 24 fiber), 400', 2 mm fanouts, MT connectors	RDT-SJ24J00B4002A	25192506
Rapid fiber distribution terminal, standard, 24 fiber, 24 count, APC, no tray, no pigtails, 3 mm loose tube riser (zipcord for 24 fiber), 500', 2 mm fanouts, MT connectors	RDT-SJ24J00B5002A	25192507



Delivering Voice,
Data and Video

Outdoor Fiber Distribution
Terminal (oFDT)

MDU Rapid Fiber System





Connectivity Solutions

Indoor Fiber Distribution Terminal (iFDT)

The indoor fiber distribution terminal (iFDT) provides multiple dwelling unit (MDU) applications with a compact and secure family of enclosures for connecting fiber cables at MDU's. The iFDT products utilize a rugged double-hinged design that effectively isolates the splicing and cable termination in the rear compartment from the jumper interconnection in the front compartment. Separating the cable splicing and termination into a layered configuration provides a space-efficient and craft-friendly interface unit.

The layered iFDT staggered interconnection field provides ease of access to all connections. The iFDT enclosure provides standard SC/APC connections and parking adapters for locating the connectorized pigtailed prior to deployment.

Features

- Designed to splice and terminate six, 12, 24 and 48 fibers
- Integrated splice tray offers flexible splice management for individual or mass splicing
- Sealed enclosure protects fibers from dust, water spray, insects and other contaminants
- Dual-hinged design ensures separation of owner/client network segments
- NEMA-12 rated
- Tested to GR-2898-CORE
- Front and rear layer maximizes wall space utilization for both splicing and interconnect
- Robust steel construction protects fibers against damage and ensures network reliability
- Slotted cable entrance ports allow for rapid cable installation and pass-through capability
- Cable management and routing limits bend radius and adds strain relief
- 216-Tool (can wrench), key lock or padlock offers flexible security options



Delivering Voice,
Data and Video

Indoor Fiber Distribution
Terminal (iFDT)

Description	Mfg. Part No.	Graybar ID
6-Port indoor FDT with parking, pigtailed, SC/APC fanouts	FDT-AJ306PPA000	25192507
12-Port indoor FDT with parking, pigtailed, SC/APC fanouts	FDT-BJ312PPA000	25192508
24-Port indoor FDT with parking, pigtailed, SC/APC fanouts	FDT-CJ324PPA000	25192509
48-Port indoor FDT with parking, pigtailed, SC/APC fanouts	FDT-EJ348PPA000	25192510
6-Port indoor FDT with parking, pigtailed, riser ribbon cable, SC/APC ribbon fanouts, standard riser ribbon cable stub lengths (ft): 025	FDT-AJ006PPR025	25192511
6-Port indoor FDT with parking, pigtailed, riser ribbon cable, SC/APC ribbon fanouts, standard riser ribbon cable stub lengths (ft): 100	FDT-AJ006PPR100	25192512
6-Port indoor FDT with parking, pigtailed, riser ribbon cable, SC/APC ribbon fanouts, standard riser ribbon cable stub lengths (ft): 200	FDT-AJ006PPR200	25193068
6-Port indoor FDT with parking, pigtailed, riser ribbon cable, SC/APC ribbon fanouts, standard riser ribbon cable stub lengths (ft): 300	FDT-AJ006PPR300	25192513
6-Port indoor FDT with parking, pigtailed, riser ribbon cable, SC/APC ribbon fanouts, standard riser ribbon cable stub lengths (ft): 500	FDT-AJ006PPR500	25192514
12-Port indoor FDT with parking, pigtailed, riser ribbon cable, SC/APC ribbon fanouts, standard riser ribbon cable stub lengths (ft): 025	FDT-BJ012PPR025	25192515
12-Port indoor FDT with parking, pigtailed, riser ribbon cable, SC/APC ribbon fanouts, standard riser ribbon cable stub lengths (ft): 100	FDT-BJ012PPR100	25192516
12-Port indoor FDT with parking, pigtailed, riser ribbon cable, SC/APC ribbon fanouts, standard riser ribbon cable stub lengths (ft): 200	FDT-BJ012PPR200	25193070
12-Port indoor FDT with parking, pigtailed, riser ribbon cable, SC/APC ribbon fanouts, standard riser ribbon cable stub lengths (ft): 300	FDT-BJ012PPR300	25192517
12-Port indoor FDT with parking, pigtailed, riser ribbon cable, SC/APC ribbon fanouts, standard riser ribbon cable stub lengths (ft): 500	FDT-BJ012PPR500	25192518
24-Port indoor FDT with parking, pigtailed, riser ribbon cable, SC/APC ribbon fanouts, standard riser ribbon cable stub lengths (ft): 025	FDT-CJ024PPR025	25192519
24-Port indoor FDT with parking, pigtailed, riser ribbon cable, SC/APC ribbon fanouts, standard riser ribbon cable stub lengths (ft): 100	FDT-CJ024PPR100	25192520
24-Port indoor FDT with parking, pigtailed, riser ribbon cable, SC/APC ribbon fanouts, standard riser ribbon cable stub lengths (ft): 200	FDT-CJ024PPR200	25193071
24-Port indoor FDT with parking, pigtailed, riser ribbon cable, SC/APC ribbon fanouts, standard riser ribbon cable stub lengths (ft): 300	FDT-CJ024PPR300	25192521
24-Port indoor FDT with parking, pigtailed, riser ribbon cable, SC/APC ribbon fanouts, standard riser ribbon cable stub lengths (ft): 500	FDT-CJ024PPR500	25192522
48-Port indoor FDT with parking, pigtailed, riser ribbon cable, SC/APC ribbon fanouts, standard riser ribbon cable stub lengths (ft): 025	FDT-EJ048PPR025	25192523
48-Port indoor FDT with parking, pigtailed, riser ribbon cable, SC/APC ribbon fanouts, standard riser ribbon cable stub lengths (ft): 100	FDT-EJ048PPR100	25192524
48-Port indoor FDT with parking, pigtailed, riser ribbon cable, SC/APC ribbon fanouts, standard riser ribbon cable stub lengths (ft): 200	FDT-EJ048PPR200	25193073
48-Port indoor FDT with parking, pigtailed, riser ribbon cable, SC/APC ribbon fanouts, standard riser ribbon cable stub lengths (ft): 300	FDT-EJ048PPR300	25192525
48-Port indoor FDT with parking, pigtailed, riser ribbon cable, SC/APC ribbon fanouts, standard riser ribbon cable stub lengths (ft): 500	FDT-EJ048PPR500	25192526
12-Port indoor FDT with SC/APC ribbon fanouts	FDT-AJ312NXA000	25192527
24-Port indoor FDT with SC/APC ribbon fanouts	FDT-BJ324NXA000	25192528
48-Port indoor FDT with SC/APC ribbon fanouts	FDT-CJ348NXA000	25192529
96-Port indoor FDT with SC/APC ribbon fanouts	FDT-EJ396NXA000	25192530
12-Port indoor FDT with SC/APC stranded fibers	FDT-AJ212NXC000	25192531
24-Port indoor FDT with SC/APC stranded fibers	FDT-BJ224NXC000	25192532
2w48-Port indoor FDT with SC/APC stranded fibers	FDT-CJ248NXC000	25192533
96-Port indoor FDT with SC/APC stranded fibers	FDT-EJ296NXC000	25192534





MRV Communications – Metro Ethernet Solutions

Metro Ethernet for BLEC and MDU

OptiSwitch® 9000

OS9000 Series

The OptiSwitch® 9000 series is an intelligent, versatile and powerful carrier class/metro Ethernet platform with a comprehensive quality of service and operations management feature set. Distributive software and hardware architecture along with cutting-edge technology enable it to meet current and future needs. Robust and highly flexible with intelligent layer 2/3 switching and advanced quality of service, the OS9000 series can be readily applied to provide Ethernet IP multimedia services for voice, video and high-bandwidth data applications. The OS9000 series is designed as an optical and copper aggregation switching platform for service providers and is suited for next generation converged IP services over Ethernet. The OS9000 series is ideally suited for central offices, street cabinets, multi-dwelling units (MDUs) and the emerging building local exchange carrier (BLEC) market.

The OS9000 series enables layer 2 VPN services based on Ethernet over MPLS protocol. It supports Martini MPLS L2VPN and hierarchical VPLS (H-VPLS) PE-r spoke services that scale the VPLS service and simplifies multipoint topology. The MPLS L2VPN offers virtual leased line (VLL) services or pseudo wire emulation edge-to-edge (PWE3) regardless of traversing protocols. The MPLS functionality is enforced with highly flexible mechanisms to create traffic engineering (RSVP-TE/CR-LDP) connection-oriented paths and predefined rules for protection.

The OptiSwitch 9000 series ASIC-based technology enables a secure environment, preventing denial of service (DoS) attacks by using a range of layer-independent ACL together with QoS protective techniques such as rate limit for per-service based streams, source MAC address learning limit, and comprehensive IP ACL rules. Each access list has an action rule that determines whether a packet will be forwarded or dropped in case of an unsuccessful hit. If a packet satisfies an ACL rule at any layer, various handling actions can be defined.

The OS9000 series control plane incorporates a list of highly manageable features that offer ensured interaction with carrier's OSS and NMS platforms, based on industry standard southbound out-of-band or in-band interfaces. In addition, it can be managed via MRV's MegaVision-Pro NMS to have complete GUI and northbound gateway (XML, TL1 & SNMP) of an entire map of clustered devices for configuration, performance analysis and inventory control. The OS9000 incorporates enhanced standards compliant MEF OAM and gives the service provider the ability to monitor the network and provision services, and promptly determine the location of faults remotely from the network operation center.

Features

Intelligent Layer 2 switching

- Provider bridging (802.1ad) and VLAN tagging (802.1q)
- Per VLAN non-learning – transparent/crops connect mode
- Support for jumbo frames up to 9K bytes
- Multicast/broadcast service control, delivery and filtering
- Fault tolerance and loop protection with Multiple Instance Spanning Tree (802.1s), Link Aggregation (802.3ad), 1:1 Link LOS protection & Link Fault Reflection (LIR)

Intelligent Layer 3 Routing

- MPLS label switching (LDP and CR-LDP)
- OSPF v1/2 with traffic engineering
- RIPv1/2, ISIS and BGP

MPLS L2 VPN - LER and LSR / H-VPLS Spoke (PE-r) IP Multicast Services

- IGMP v1/2 multicast snooping
- Multicast routing (PIM)

Quality of Service/ Traffic Management

- Classification/markings on VLAN priority/IP ToS/ MPLS EXP
- Per inbound interface service
- Per VLAN/subscriber service
- Per class of service
- Layer 3 and layer 4 classification

Features (Continued)

Security ACLs (Access Control and Layer 2/3 filtering) Enhanced secure management (SSHv2, SCP and SNMPv3) Advanced Statistics

- Statistics used by subscriber/VLAN service or per application class
- Counters per physical port, per CoS & per queue
- Security logs/traps

Advanced Operations and Management

- MPLS LSP ping
- Service assurance - round trip reporter
- Optical level monitoring (digital diagnostics)
- Virtual cable diagnostics (VCD - Copper TDR)
- Ethernet/VLAN/Mac loop backs
- Performance and connectivity fault management (802.1ag/ ITU 1731)

Benefits

- Intelligent Ethernet access and aggregation platform enabling providers to offer more services to more customers with less infrastructure costs
- Advanced traffic management for assured quality delivery of triple play services
- Comprehensive OAM tools for remote network management enabling less truck rolls and faster restoration of service
- Flexible failover capabilities for high availability to ensure no disruption of services filtering

Description	Mfg. Part No.	Graybar ID
OptiSwitch® 9000 series multi-layer platform with 24 GigE multipurpose Tri-mode ports - 100FX SFP / 1000FX SFP or built-in RJ45 10/100/1000T + 2 10GX (XFP) uplinks and 2 optional WDM slots (power supplies should be ordered separately - 2 power supplies mandatory and 2 for redundancy)	OS9024M-210Gx	Call
OptiSwitch® 9000 series multi-layer 24 GigE platform with 20 unpopulated 1000BaseX SFPs and 4 GigE Combo - Dual mode (SFP or RJ45 10/100/1000T) ports (power supplies should be ordered separately)	OS9024-4C	Call
OptiSwitch® 9000 series multi-layer platform with 24 GigE multipurpose Tri-mode ports - 100FX SFP / 1000FX SFP or built-in RJ45 10/100/1000T (power supplies should be ordered separately)	OS9024-M	Call
OptiSwitch® 9000 series multi-layer platform with 24 unpopulated 100BaseX SFPs and 4 GigE Dual mode (SFP or RJ45 10/100/1000T) ports (power supplies should be ordered separately)	OS9024FX-4GC	Call
OptiSwitch® 9000 series multi-layer platform with 12 GigE multipurpose Tri-mode ports - 100FX SFP / 1000FX SFP or built-in RJ45 10/100/1000T and dual 10G-XFP APS-protected (LOS 1:1) uplink (power supplies should be ordered separately)	OS9012M-10G-APS	Call
OptiSwitch® 9000 series multi-layer platform with 12 dual mode (SFP or RJ45 10/100/1000T) ports and 10G XFP Uplink (power supplies should be ordered separately)	OS9012C-10Gx	Call
OptiSwitch® 9000 series multi-layer platform with 12 GigE multipurpose Tri-mode ports - 100FX SFP / 1000FX SFP or built-in RJ45 10/100/1000T (power supplies should be ordered separately)	OS9012-M	Call
OptiSwitch® 9000 series multi-layer platform with 48 10/100BaseT and 4 GigE SFP ports (power supplies should be ordered separately)	OS9052	Call
AC power supply for the OptiSwitch® 9000 series (90-240V AC)	EM9005-PS/AC	Call
DC power supply for the OptiSwitch® 9000 series (-48V DC)	EM9005-PS/DC	Call
Enhanced software upgrade package for OptiSwitch® 9000 series (master-OM: L3 + MPLS VC - LDP, RSVP-TE, CR-LDP, OSPF-TE, CSPF)	SW-UPG-9MPLS	Call
8 Wavelengths CWDM multiplexer/demultiplexer module for OS9000	O9-Mux/Demux8	Call
4-Port T1 circuit emulation service module with high-precision clock	EM9K-CES-4T1c	Call





MRV MDU Solutions

Metro and Sub-Metro Optical Transport

Fiber Driver® Solutions

MRV's Fiber Driver® product line is an innovative optical service platform that revolutionizes the industry's image of optical transport.

Optical transport platforms from the metro and sub-metro network to the access and enterprise network have traditionally come in the form of monolithic and very expensive systems designed and configured for a specific application.

Different platforms were built for each of the main applications of the Optical Transport, including media conversion and fiber grooming, service demarcation and WDM. Each of these platforms were built with their fixed functionality in mind, addressing solutions focused on protocols, lambdas, media and specific reaches (a.k.a. optical budgets).

Altering one of these characteristics has historically required either the costly replacement of an entire module (albeit converter or transponder); the implementation of an intermediary device such as a media converter, optical amplifier or optical attenuator; or the use of costly equipment such as tunable lasers. Consequently, the barrier to deploying a true multi-service optical network with these inflexible systems has remained high, and the mixing and matching of evolving services and the integration of these services from end-to-end across the provider network has continued to be both challenging and cost-prohibitive.

MRV's Fiber Driver® optical service platform combines all these once-complex technologies and is able to handle a wide range of applications which can be easily and cost effectively reconfigured to meet changing demands. This innovative platform offers an optical transport toolkit that contains the building blocks for a user driven modular application build-up.

Features and Benefits

Optical Multi-Service Platform

- Fiber grooming
- Intelligent service demarcation
- Sophisticated CWDM and DWDM
- Digital video distribution

Multi-Function Multi-Protocol Modules

- Converters or WDM transponders
- Any protocol/any rate
- Built-in redundancy or flexible multicasting
- Flexible pluggable optical transceivers

Protocol Specific Multi-Function Modules

- Converters or WDM transponders
- Built-in redundancy
- Flexible pluggable optical transceivers
- From T1/E1 to 10Gbps

Services Demarcation

- Based on 802.3AH extended protocol
- Ethernet demarcation (fast and Gigabit Ethernet)
- Ethernet and WAN (T1/E1) TDM demarcation
- Flexible pluggable optical transceivers
- WDM capabilities – WDM PON, linear and ring (refer to fiber driver passives list)
- Scalable modular chassis-based platform
- Advanced end-to-end network management

Ethernet Copper-to-Fiber Converters

Ethernet/Fast Ethernet

Description	Mfg. Part No.	Graybar ID
Fast Ethernet multi-function media converter, 10/100 Base-TX, 100Base-FX, 2 RJ45 & 2 SFP connectors	EM316SW-XY	Call
100Base-TX (RJ45) to 100Base-FX	EM316F/xx	Call
2 Wavelength WDM, 100BaseTX (RJ45) to 100Base-FX single strand fiber.	EM316WFx/xx	Call

Note: Must be purchased in pairs – EM316WFT/xx with EM316WFC/xx



EM316SW-XY



EM316F

Gigabit Ethernet

Description	Mfg. Part No.	Graybar ID
1000Base-T (RJ45) to 1000Base-X (DSC) Gigabit Ethernet with LIN (link integration notification).	EM316GCL/xx	Call
2 Wavelength single strand fiber, 1000Base T (RJ-45) to 1000Base X Gigabit (RJ45 to DSC).	EM316WGCLx/xx	Call

Note: Must be purchased in pairs – EM316WGCLC/xx with EM316WGCLT/xx



EM316GCL

Ethernet/Fast Ethernet with Remote Management

Description	Mfg. Part No.	Graybar ID
10Base-TX to 100Base-FX (DSC) with IP-less remote management	EM316ERM/xx	Call
2 Wavelength WDM, 10Base-TX (RJ45) to 100Base-FX single strand fiber (singlemode SC) with IP-less remote management	EM316WERMx/xx	Call
100Base-TX (RJ45) to 100Base-FX (DSC); with IP-less remote management	EM316FRM/xx	Call
2 Wavelength WDM, 100BaseTX (RJ45) to single strand fiber (SM, SC); can be managed remotely from central office	EM316WFRMx/xx	Call

Note: Must be purchased in pairs – EM316WFRMT/xx with EM316WFRMC/xx

Auto-negotiate 10/100Base-TX (RJ-45) Ethernet copper to 100Base-FX dual fiber (DSC) with IP-less remote management

2 Port module, 1 port 10/100Base TX (RJ45) autosensing to 100Base FX (SC) single fiber (SM/WDM), with IP-less remote management

Note: Must be purchased in pairs – EM316WEFRMC/xx with EM316WEFRMT/xx



EM316ERM/EM316FRM

Delivering Voice,
Data and Video

Fiber Driver® Solutions

Ethernet Copper-to-Fiber
Converters



MRV MDU Solutions

Metro and Sub-Metro Optical Transport

Coax Copper-to-Fiber Converters

DS3

Description	Mfg. Part No.	Graybar ID
2 Wavelength WDM, DS3 (44.736Mbps) coax (BNC) to single strand fiber (SM, SC).	EM316WDS3x/xx	Call

Note: Must be purchased in pairs – EM316WDS3C/xx with EM316WDS3T/xx

E3

Description	Mfg. Part No.	Graybar ID
E3 Coax (BNC) to fiber converter (DSC)	EM316E3/xx	Call

OC-3

Description	Mfg. Part No.	Graybar ID
SONET OC3 coax (BNC) to OC fiber (DSC)	EM316O3C/M	Call

E1/T1 Fiber Modems

Description	Mfg. Part No.	Graybar ID
E1 (RJ45) to fiber modem (ST)	EM316E1RJ/xx	Call
E1 Coax (BNC) to fiber modem (ST)	EM316E1/xx	Call
T1 Copper (RJ48) to fiber modem (ST)	EM316T1/xx	Call

802.3 AH with Remote Management Converters

Description	Mfg. Part No.	Graybar ID
User port auto-sensing between 10/100 Base-TX copper and 100-FX SFP based fiber to redundant SFP based fiber trunk with 802.3AH extended remote management, firmware revision 5.00 (0042b)	EM316EFRMAHSH-5	Call
User port auto-sensing between 10/100/1000 Base-T copper and 1000-X SFP based fiber to redundant SFP based fiber trunk with 802.3AH extended remote management, firmware 5.00 (0042b)	EM316GRMAHSH-5	Call
10/100 Ethernet and E1 (BNC) multiplexed over an SFP based optical link with AH extended based remote management, firmware 5.00E (0033)	EM316EFE1RJR-5	Call
10/100 Ethernet and E1 (RJ48) multiplexed over an SFP based optical link with AH extended based remote management, firmware 5.00E (0033)	EM316EFE1RM-5	Call
10/100 Ethernet and T1 (RJ48) multiplexed over an SFP based optical link with AH extended based remote management, firmware 5.00E (0033)	EM316EFT1RM-5	Call
4 (Four) T1 (RJ-48) multiplexed over an SFP based optical link with AH based RM	EM316T1MUX4RM	Call
4 (Four) E1 (BNC) multiplexed over an SFP based optical link with AH based RM	EM316E1MUX4RM	Call
4 (Four) E1 (RJ-48) multiplexed over an SFP based optical link with AH based RM	EM316E1MUX4JRM	Call



EM316E1



EM316EFRMAHSH



EM316GRMAHSH



EM316EFE1RM



EM316EFT1RM/EM316EFE1RMRJ



EM316E1MUX4/EM316T1MUX4

SFP-Based Solutions

Multi-rate/Multi-function Modules

Description	Mfg. Part No.	Graybar ID
Multi-rate fiber module, 42Mbps to 3.2G speeds with quad CDR, with four SFP pluggable optics interfaces	EM316DMR3G-3R	Call
Protocol transparent fiber media module, with dual SFP pluggable optics interfaces	EM316-2SFP	Call
10G transponder, with dual XFP pluggable optic interfaces, 10G Ethernet LAN PHY optimized	EM316-2XFP-ET	Call
10G transponder, with dual XFP pluggable optic interfaces	EM316-2XFP	Call
1/2/4 Gbps fiber channel converter/transponder, with dual SFP pluggable optics interfaces	EM316FC400	Call



EM316DMR3G-3R



EM316-2XFP/EM316-2XFP-ET



EM316GEMX2R/EM316MRMX2R

Sub-rate Multiplexing Modules

Description	Mfg. Part No.	Graybar ID
SFP-based TDM multiplexer capable of multiplexing two (2) Gigabit-speed data channels onto one trunk with redundant link	EM316GEMX2R	Call
SFP-based TDM multiplexer capable of multiplexing two (2) Gigabit Ethernet or (2) fibre channel (1 Gbps) data channels onto one trunk with redundant link	EM316MRMX2R	Call

Platform Components

Management

Description	Mfg. Part No.	Graybar ID
SNMP management module with 1 10Base-T port and an RS232 interface firmware 5.00.00 (26)	EM316NM-5	Call
Linux based network management card for NC316BU chassis.	EM316LNXM-OT	Call

Note: See release notes for support fiber driver modules



EM316NM



EM316GEMX2R/EM316MRMX2R

Delivering Voice,
Data and Video

Coax Copper-to-Fiber
Converters

SFP-Based Solutions

Platform Components



Metro and Sub-Metro Optical Transport

Data, Voice and Video Solution for High-Rise, Condo and Hotels

Platform Components (Continued)

Description	Mfg. Part No.	Graybar ID
Single-slot chassis with internal 90-240V AC power supply, desk top, AC or DC	NC316BU-1/xC	Call
Single-slot high power chassis with internal 90-240V AC power supply, to be used with all single fiber modules, AC or DC	NC316BU-1HP/xC	Call
Single-slot chassis with no power supply, to be used only with passive modules	NC316BU-1/NP	Call
2-Slot chassis with internal 90-240V AC power supply (1 single slot blank panel included), AC or DC	NC316BU-2/xC	Call
3-Slot chassis with Internal 90-240V AC power supply (second PS is optional; 2, single slot blank panel included)	NC316BU-3/xC	Call
4-Slot chassis with internal 90-240V AC power supply (2 single slot blank panels included), AC or DC	NC316BU-4S/xC	Call
Non-managed, non-powered 4-slot pluggable media connect chassis for fiber driver passive mux/demux modules	NC316BU4PMC/NP	Call
16-Slot chassis with internal 90-240V AC power supply (3 single slot and 3 4-slot blank panels included), AC or DC	NC316BU-16/xC	Call



Redundant Power Supplies

Description	Mfg. Part No.	Graybar ID
Redundant power supply for NC316BU-3/AC (90-240VAC)	NC316-3RPSAC	Call
Redundant power supply for NC316BU-3/DC (-48 VDC)	NC316-3RPSDC	Call
Redundant power supply for NC316BU-4S/AC (90-240V AC)	NC316-4SRPSAC	Call
Redundant power supply for NC316BU-4S/-48VDC	NC316-4SRPSDC	Call
Redundant power supply for NC316BU-16 (240 VAC)	NC316-16RPSAC	Call
Redundant power supply for NC316BU-16 (-48 VDC)	NC316-16RPSDC	Call

12, 24 and 48 Port Wired or Wireless Kits

MDU Market Share Leader for Broadband, VoIP and Video Transport

Zhone Technologies offers low-cost MDU solutions delivering high-speed Internet access, VoIP and IPTV over wired or wireless networks.

Features and Benefits

- Select bundles supporting 12 to 48 ports
- Stackable to achieve higher port density
- All-inclusive kit with DSLAM, DSL modems, mounting brackets and filter block(s)
- Plug-and-play wired or wireless DSL modems
- Gigabit Ethernet and 10/100 interfaces
- Front cabled
- Easy management – WEB, SNMP, Telnet
- AC powered
- Purpose built, aggressively priced for the MDU market
- Zhone is an HTNG charter and platinum member, a leading hospitality association, serving also on the in-room technology workgroup
- The following bundles are excellent for deploying broadband services, but for triple play w/POTS splitter voice use Zhone's Bitstorm RP – for triple play w/POTS VoIP use the MALC-XP DSLAM

For Triple Play – Data, Voice and Video

MDU Bundle Contents	Mfg. Part No.	Graybar ID
24 Port 2621 IP ADSL2+ DSLAM, 24 x 6212-I3-200 DSL modems with integrated filter block	2621-P2-001	25162946

For High-Speed Internet 12, 24 and 48 Port Wired U.S. Bundles

MDU Bundle Contents	Mfg. Part No.	Graybar ID
12 Port 4800 express IP ADSL DSLAM, 12 x 6211-I3-200 DSL modems, mounting brackets and filter blocks	4821-P1-005	25162947
24 Port 4800 express IP ADSL DSLAM, 24 x 6211-I3-200 DSL modems, mounting brackets and filter blocks	4821-P1-006	25162948
48 Port 4800 express IP ADSL DSLAM, 48 x 6211-I3-200 DSL modems, mounting brackets and filter blocks	4821-P1-007	22084082

12, 24 and 48 Port Wireless U.S. Bundles

MDU Bundle Contents	Mfg. Part No.	Graybar ID
12 Port B54800 express IP ADSL DSLAM, 12 x 6218-I2-200 Wi-Fi DSL modems, mounting brackets and filter blocks	4821-P3-017	25162951
24 Port B54800 express IP ADSL DSLAM, 24 x 6218-I2-200 Wi-Fi DSL modems, mounting brackets and filter blocks	4821-P2-018	25162949
48 Port B54800 express IP ADSL DSLAM, 48 x 6218-I2-200 Wi-Fi DSL modems, mounting brackets and filter blocks	4821-P2-019	25162950

MDU Solution Kits

- Includes DSLAM, modems, filter block, filters and mounting brackets
- 12, 24, 48 port 1U DSLAMs for any size deployment
- DSL modems for data, video, voice, VoIP, and WiFi

DSLAM

- ADSL2+, VDSL2 download
- 10/100/1000, T1/E1 uplink
- Web, CLI and SNMP management

Wired Modems

- ADSL, ADSL2+, VDSL2
- Mounting bracket or free standing
- Quality of service for secure internet, video and VoIP
- Remote management

WiFi Modems

- Economically deploy in small to large scale hotels
- IEEE 802.11n Wi-Fi
- All wired modem features
- Secure access

Delivering Voice,
Data and Video

Platform Components
(Continued)

MDU Triple Play
Bundles Easily
Deploy Data, Voice
and Video Services

12, 24 and 48 Port Wired
Or Wireless Kits



Fluke Networks' Multi Dwelling Unit Solutions

Testing

OptiFiber® Professional OTDR

As bandwidth increases in premises networks, the use of fiber optics grows – and so do the requirements for testing and certifying it. To ensure the performance of mission-critical fiber optic links, network owners are demanding information that gives them a more complete picture. And no solution provides a more complete picture than the OptiFiber® professional OTDR – the complete test solution for troubleshooting and certifying fiber networks. It delivers superior vision into fiber cabling infrastructure for network technicians of all experience levels, so you can ensure the performance quickly and easily. Advanced optoelectronics accurately pinpoint multiple events less than 1 meter apart in a connection rich data center environment. OptiFiber also integrates loss/length certification OTDR analysis and FiberInspector Pro video endface inspection in a single, easy-to-use tool.

Description	Mfg. Part No.	Graybar ID
OptiFiber MM/SM certifying OTDR	OF-500-45	25082002
OptiFiber MM/SM OTDR	OF-500-35	25013575
OptiFiber multimode certifying OTDR	OF-500-10	22069508



DTX CableAnalyzer™

DTX significantly reduces total time to certify by improving every aspect of testing. Three times faster and more accurate than other testers – nine-second Cat 6 autotest, level IV accuracy, 900 MHz, intuitive diagnostics, on-board fiber modules, 12-hour battery life and fast setup and reporting. AC wiremap verifies cabling through midspan PoE controllers. DTX – it's all about time!

Description	Mfg. Part No.	Graybar ID
DTX-1800 CableAnalyzer	DTX-1800 120	22110860
DTX-1200 CableAnalyzer	DTX-1200 120	22110808



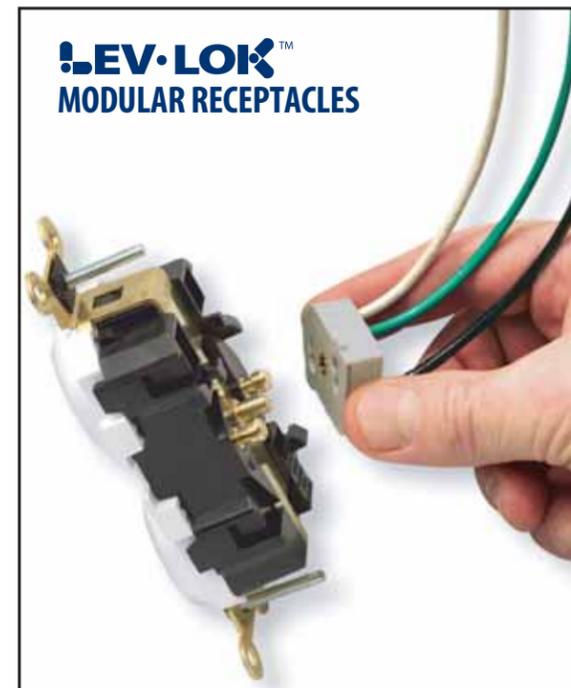
Delivering Voice,
Data and Video

OptiFiber® Professional
OTDR

DTX CableAnalyzer™

GRAYBAR & LEVITON ARE GIVING YOU A NEW WAY TO DEAL WITH COMPETITORS

JUST TWO PIECES, TWO STEPS... IT'S LOCKED AND LATCHED.



With just two pieces and two steps, Lev-Lok Modular Receptacles are locked and latched. For more information on faster installation, go to graybar.com/esp.



Now more than ever, electrical contractors are asked to work harder, for less money. Work safer, to lower insurance costs. And work smarter, so they can get to the next job faster. Markets are shifting, and margins are shrinking. There's a shortage of qualified workers, and customers have never been more demanding.

How can you juggle it all, while turning a profit on every job? By using *Graybar ESP*, a new set of products and services to help you work with greater efficiency, safety and productivity. Like the one we're showcasing here. If you're ready to win more business, we're ready to show you the way.

For your free copy of *Winning More Business with Graybar ESP*, visit graybar.com/esp, ask your Graybar representative or call 1-800-GRAYBAR (472-9227).



Leviton Manufacturing

Wiring Devices and Premium Grade Lighting Controls

Acenti® Switches

A celebration of design and innovation, the Acenti® collection has set new standards for style and functionality. All devices appear at the same attractive position whether ON or OFF. Acenti lighting controls and switches respond alike – their push-pads remain permanently graded. No line-breaks or irregular shadow patterns detract from their pleasing, symmetrical appearance. The collection also includes the industry's first triplex and sixplex receptacles, GFCIs and screwless snap-on wallplates. Acenti satisfies your senses as well as your sense of style.

Features

- Provides crisp actuation and excellent tactile feedback
- Single-pole and multi-location switching with Acenti switch remotes
- Soothing, blue locator LED for easy location in the dark
- Multifunction self-grounding clip snaps onto wallplate and ensures proper device alignment
- Subtle, matte finish complements fine décors



ACS15-1L

Description	Color	Mfg. Part No.	Graybar ID
15A, 120VAC electronic switch with LED locator	W, A, G, E, D, S, Q, C	ACS15-1L	Call

Note: Acenti colors: alabaster (-W), quartz (-Q), natural (-A), sand (-S), driftwood (-D) slate (-G), onyx (-E), cocoa (-C)

Acenti® Dimmers

Features

- DIM-LOCK feature allows lights to turn ON to a user-configured level
- Push-pad always returns to the neutral position regardless of load status
- Digital circuitry provides eye-pleasing soft-ON/fade-OFF and extended lamp life; fade rates are selectable
- Minimum brightness can be adjusted to comfortable level
- Subtle blue LED locator and brightness level display



ACI06-1L

Description	Color	Mfg. Part No.	Graybar ID
600W, 120VAC incandescent dimmer	W, A, G, E, D, S, Q, C	ACI06-1L	Call

Note: Acenti colors: alabaster (-W), quartz (-Q), natural (-A), sand (-S), driftwood (-D) slate (-G), onyx (-E), cocoa (-C)

Acenti® Receptacles

Features

- Fits into a standard-size wall box
- Space-saving triplex receptacle accommodates three NEMA grounding plugs
- Neat, multi-gang installation with no dividers between devices
- Terminal screws (back- and side-wire) available for easier installation
- Multifunction self-grounding clip snaps onto wallplate and ensures proper device alignment
- Screwless, snap-on wallplates in matching and coordinating colors

Description	Color	Mfg. Part No.	Graybar ID
15A, 125VAC triplex receptacle	W, A, G, E, D, S, Q, C	AC315	Call
15A, 125VAC GFCI receptacle	W, A, G, E, D, S, Q, C	ACGF1	Call
15A, 125VAC duplex surge receptacle	W, A, G, E, D, S, Q, C	ACSSR	Call
15A, 125VAC sixplex surge receptacle	W, A, G, E, D, S, Q, C	ACSR6	Call

Note: Acenti colors: alabaster (-W), quartz (-Q), natural (-A), sand (-S), driftwood (-D) slate (-G), onyx (-E), cocoa (-C)



AC315



ACGF1



ACSSR



ACSR6

Acenti® Screwless, Snap-On Wallplates

Features

- Screwless metal wallplates coordinate with premium-grade appliances and fixtures
- Available in engineering-grade polymer, polished chrome and brushed stainless steel
- Alignment plate with positioning pins ensures alignment of device and wallplate
- Single-opening design of multi-gang wallplates means device frames rest side-by-side, without extra webbing between them, for an uncluttered appearance



Description	Color	Mfg. Part No.	Graybar ID
1-Gang	W, A, G, E, D, S, Q, C	ACWP1	Call
2-Gang	W, A, G, E, D, S, Q, C	ACWP2	Call
3-Gang	W, A, G, E, D, S, Q, C	ACWP3	Call
4-Gang	W, A, G, E, D, S, Q, C	ACWP4	Call

Note: Acenti colors: alabaster (-W), quartz (-Q), natural (-A), sand (-S), driftwood (-D) slate (-G), onyx (-E), cocoa (-C)

Acenti® Collection

Acenti® Switches

Acenti® Dimmers

Acenti® Receptacles

Acenti® Screwless,
Snap-On Wallplates



Leviton Manufacturing

Commercial and Residential Grade Energy Management Products

Decora® Plus Electronic Timer Switches

Leviton timers add contemporary styling to any commercial or residential application and are built to the highest performance standards. LEDs indicate elapsed time and flash a “two minutes until OFF” warning. They provide long-lasting, trouble-free service life.

Features

- Have four preset buttons plus OFF for timed control of lights and appliances
- All install easily in single-gang wallbox in place of a standard switch
- Electronic keypad control

Commercial Grade

Description	Color	Mfg. Part No.	Graybar ID
Four preset buttons and OFF 3-wire, single-pole 1000W, 120VAC incandescent	W, I, A, T W, I, A, T W, I, A, T W, I, A	6215M 6230M 6260M 6212H	Call Call Call Call

Residential Grade

Description	Color	Mfg. Part No.	Graybar ID
Four preset buttons and OFF 2-wire, single-pole 500W, 120VAC only	W, I, A W, I, A W, I, A	6515M 6560M 6512H	Call Call Call

Note: Timer colors: ivory (-I), white (-W), almond (-A)



Decora® Programmable Electronic Timer Switches

Features

24-Hour Programmable Timer

- Ideal for a wide variety of commercial and residential applications including outdoor lighting
- Permits separate ON or OFF scheduling for half-hour periods of the day; ON/OFF manual control available by using button below display panel

Description	Color	Mfg. Part No.	Graybar ID
24-Hour LCD programmable timer switch 1200W, 120VAC incandescent 1200VA, 120VAC inductive (1 HP Motor)	W, I, A	6124H	Call

Note: Timer colors: ivory (-I), white (-W), almond (-A)

Features

14-Hour Programmable Timer

- Ideal for residential incandescent lighting control including indoor, outdoor and seasonal lighting
- “Set-it-and-forget-it” convenience provides automatic daily control with manual override

Description	Color	Mfg. Part No.	Graybar ID
40W-500W, 120VAC incandescent 14-Hour segment programmable timer switch	W, I, A	6651	Call

Note: Timer colors: ivory (-I), white (-W), almond (-A)

Features

Countdown Timer Switch

- For residential and light commercial applications including indoor and outdoor lighting, office lights and ceiling paddle fans
- Simple rotary-dial time selection of settings from 1 minute to 18 hours; ON/OFF manual control

Description	Color	Mfg. Part No.	Graybar ID
500W, 120VAC incandescent Decora style rotary-dial countdown timer switch	W, I, A	6652	Call

Note: Timer colors: ivory (-I), white (-W), almond (-A)





Leviton Manufacturing

Decora® Wiring Devices

Switches

Decora® AC Quiet Rocker Switches

Leviton's Decora designer line of wiring devices adds contemporary styling to any residential or commercial application. Decora devices are built to the highest performance standards to provide a long, trouble-free service life. The Decora devices line represents a broad selection of switches, receptacles, surge suppressor receptacles, SmartLockPRO® GFCI receptacles, combination devices, wall jacks and wallplates.

Features

- Quickwire™ push-in and side-wire terminal wiring options
- Switch frame shields against dust and fits in wallplate to prevent rocker binding
- Full-rated current capacity with tungsten, fluorescent or resistive loads.
- Conform to all NEMA standard specifications

Description	Color	Mfg. Part No.	Graybar ID
15A, 120/277VAC single-pole	I, W	5601	Call



Decora® Plus AC Quiet Rocker Switches

Features

- Back and side-wiring accept both solid and stranded wire to ease installation
- Heavy-duty, impact-resistant thermoplastic construction for long service life in commercial applications
- Architecturally styled, smooth-action concave rocker

Description	Color	Mfg. Part No.	Graybar ID
15A, 120/277VAC single-pole	I, W, A, T, GY, E	5691-2	Call



Decora® Combination Devices

Decora® Combination Switches/ SmartLockPRO® GFCI Receptacle

Features

- Multi-switch combination devices save space and add convenience
- Switch/SmartLockPRO® GFCI receptacle replaces standard switch/outlet combination devices in commercial or residential installations
- Switch/SmartLockPRO® GFCI receptacle permits multiple wiring options that allow six different applications

Description	Color	Mfg. Part No.	Graybar ID
15A, 120V dual rocker switches	I, W, A, T	1754	Call
15A, 120V three rocker switches	I, W, A, T	1755	Call
Single-pole switch and SmartLockPRO GFCI-protected receptacle receptacle: 15A, 125V, switch rating: 15A, 1800W @ 120 VAC	I, W, A	7299	Call



Receptacles / SmartLockPRO® GFCI

Decora® AC Receptacles

Features

- Side-wire and Quickwire™ holes accept No. 14 AWG copper wire
- Heavy-gauge, zinc-plated steel mounting strap
- Heavy-duty, double-wipe power contacts for long service life

Description	Color	Mfg. Part No.	Graybar ID
15A, 125V duplex	I, W, A, T, GY, E	5325	Call



Decora® Plus Receptacles

Features

- Engineered for fine appearance and top performance in demanding commercial and institutional applications using a durable, thermoplastic face and impact-resistant construction
- Triple-wipe brass contacts for long service life

Description	Color	Mfg. Part No.	Graybar ID
15A, 125V commercial grade, duplex	I, W, A, T, GY, E	16252	Call



SmartLockPRO® GFCI

Features

- TEST and RESET functions work together so that a tripped GFCI cannot be reset if GFCI circuit no longer provides ground fault protection
- Advanced electronics design provides superior resistance to electrical surges and over-voltages

Description	Color	Mfg. Part No.	Graybar ID
15A, 125V GFCI with LED indicator light	I, W, A, T, GY, E	7599	Call





Decora® Wiring Devices

Commercial and Residential Grade Lighting Controls

Wallplates

Decora® Plus Screwless Snap-On Wallplates

Features

- Sleek, smooth contemporary architectural styling with no mounting screws and no subplate screws for ease of installation
- Decora-compatible two-piece kit allows easy retrofit to any Decora installation
- Tough, unbreakable polycarbonate construction

Description	Color	Mfg. Part No.	Graybar ID
1-Gang	I, W, A, T, GY, E	80301-S	Call
2-Gang	I, W, A, T, GY, E	80309-S	Call
3-Gang	I, W, A, T, E	80311-S	Call
4-Gang	I, W, A, T	80312-S	Call

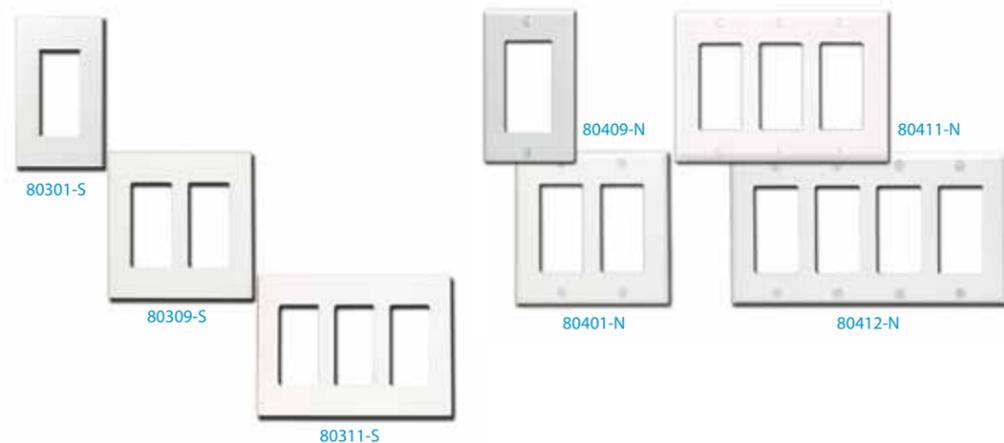
Thermoplastic Wallplates

Features

- Molded thermoplastic for maximum resistance to impact, abrasion, fading and discoloration
- Resistant to mechanical stress associated with high-abuse applications

Description	Color	Mfg. Part No.	Graybar ID
1-Gang	I, W, A, T, GY, E, R, B	80401-N	Call
2-Gang	I, W, A, T, GY, E, R, B	80409-N	Call
3-Gang	I, W, A, T, GY	80411-N	Call
4-Gang	I, W, A, T	80412-N	Call

Note: Decora colors: ivory (-I), white (-W), almond (-A), light almond (-T), gray (-GY), red (-R), ebony black (-E), blue (-B)



IllumaTech™ Lighting Controls

IllumaTech™ Decora®-Style Preset Slide Controls

Leviton offers a full line of slide, rotary and toggle dimmers and fan-speed controls ideally suited to traditional interiors. The Decora line – IllumaTech™, IllumaTech rotary and SureSlide™ – offers innovation and elegance to suit any décor and deliver high performance and reliability. ToggleTouch™, Toggle™ and Trimatron™ products combine classic design and easy operation. Clean looks, user-friendly features, color variety and flexible configurations make them suitable for all decors. Outstanding Leviton quality ensures a long, trouble-free life.

Features

- Fluid slide movement allows fine adjustment of light level with minimum effort
- Provide single-pole and three-way (multi-location) control when used with a three-way switch
- Power failure recovery ensures retention of last setting before power interruption
- Provide easy-to-use pushbutton switch with green LED locator conveniently positioned on it, making the pushbutton easier to find in the dark

Description	Mfg. Part No.	Graybar ID
600W, 120VAC incandescent dimmer with LED locator	IP106-1L	Call
1000W, 120VAC incandescent dimmer with LED locator	IP110-1L	Call
1.5A, 120VAC quiet fan speed control with LED locator neutral required	IPF01-1L	Call
5A, 120VAC fully variable fan speed control with LED locator; neutral required	IPF05-1L	Call

Note: IllumaTech Preset colors: (-X) include ivory, white and almond; (-Z) includes ivory, white and light almond



IP106-1L



RP106-1L

IllumaTech™ Rotary Controls

Features

- Rotary dial with contemporary Decora styling
- Quiet 1.5A fan speed controls are perfect for libraries, home offices and any area where ceiling fan noise could become distracting
- Decora styling complements interiors and is compatible with other Decora devices

Description	Mfg. Part No.	Graybar ID
600W, 120VAC rotary incandescent dimmer single-pole or 3-way, with LED	RPI06-1L	Call
600W, 120VAC Rotary incandescent dimmer single-pole or 3-way, no LED	RPI06-10	Call
1.5A quiet fan speed control, single-pole, no LED	RTF01-10	Call
1.5A/300W dimmer rotary dual quiet fan speed control and dimmer; single-pole, no LED	RTD01-10	Call



RTF01-10



RTD01-01

The Decora®
Collection of
Designer Devices

Wallplates

IllumaTech™ Lighting
Controls



Leviton Manufacturing

Commercial and Residential Grade Lighting Controls

SureSlide™ Lighting Controls

SureSlide™ Decora® Style Slide Controls

Features

- Have a permanently mounted, smooth-action integrated linear slide control for precise operation
- Features a slim, compact housing that fits easily into a standard wallbox and is suitable for multi-gang installations
- Preset versions provide single-pole or three-way lighting control when used with a three-way switch
- Compatible with Decora Plus screwless and Decora standard designer wallplates

Description	Color	Mfg. Part No.	Graybar ID
600W, 120VAC incandescent dimmer single-pole slide-to-off	I, W, A, T	6631-L	Call
600W, 120VAC incandescent dimmer single-pole and 3-way with preset ON/OFF switch	I, W, A, T	6633-PL	Call
600VA, 120VAC magnetic low voltage dimmer, single-pole and 3-way with preset ON/OFF switch	I, W, A, T	6613-PL	Call
300W, 120VAC electronic low voltage dimmer, single-pole and 3-way with preset ON/OFF switch	W, T	6615-P	Call
1.5A/300W dimmer dual quiet fan speed control and dimmer	W, I, A, T, G	6630	Call



6631-L



6633-PL



6630

Trimatron™ Lighting Controls

Trimatron™ Rotary Dimmers

Features

- Feature an ultra-compact design with wire leads for fast, easy installation even in tight, single-gang wallboxes
- All dimmers feature super-reliable circuitry and a built-in radio/TV interference filter
- Quiet 1.5A Trimatron fan speed control is ideal for libraries, study rooms and any area where ceiling fan noise could become distracting

Description	Color	Mfg. Part No.	Graybar ID
600W, 120VAC incandescent dimmer push ON/push OFF 3-way	I, W, A	6683	Call

Note: Available colors: ivory (-I), white (-W), almond (-A), light almond (-T) and black (-E) gray (-GY), brown (-B), gold (-G), silver (-S), (-GS) includes white, gold and silver, (-X) includes ivory, white and almond, (-Z) includes ivory, white and light almond



6683

Touch-Sensitive Lighting Controls

ToggleTouch™ Toggle Digital Dimmers

Features

- Smooth ON/OFF toggle action and fingertip touch dimming control that's easy to operate
- Unique combination of toggle-style ON/OFF switching and digital touch pad technology
- Available with locator LED that is illuminated when lights are OFF
- Toggle dimmers have easy-to-install shallow design replacing standard switch in single wallbox
- Toggle dimmers have positive ON/OFF action with smooth, full-range brightness control

Description	Color	Mfg. Part No.	Graybar ID
600W, 120VAC incandescent dimmer	I, W, A, T, B	TGI06-1L	Call
1000W, 120VAC incandescent dimmer	I, W, A, T, G	TGI10-1L	Call
600W, 120VAC single pole incandescent toggle dimmer	W, I	6641	Call
600W, 120VAC single pole and 3-way	W, I	6643	Call



TGI06-1L



6641-I



6643-W

True Touch™ Digital Dimmer

Features

- Simple one-touch for ON at preset level, or again for OFF – touch and hold for BRIGHT/DIM lighting control
- Provides single-pole (one-location) and multi-location full-range dimming
- Digital circuitry provides soft-ON/fade-OFF switching that extends lamp life

Description	Color	Mfg. Part No.	Graybar ID
600W, 20VAC incandescent dimmer w/LED	X, Z, GS	TTI06-1L	Call
1000W, 120VAC incandescent dimmer w/LED	X, Z, GS	TTI10-1L	Call



TTI06-1L



Leviton Manufacturing

Commercial and Residential Grade Energy Management Products

Wall Switch Occupancy Sensors

Leviton offers a variety of space-monitoring occupancy sensor lighting controls for virtually any room, facility, home or office. Wall or ceiling mount – with passive infrared, ultrasonic or multi-technology sensing – end-users will benefit from the energy savings, convenience and security provided by Leviton occupancy sensors.

Features

ODS15-ID PIR Occupancy Sensor

- For use in small offices, conference rooms, restrooms, warehouses and commercial areas
- Exclusive automatic “walk-through” sensing increases energy savings by shutting lights within 2-1/2 minutes after momentary occupancy

ODS10-ID PIR Occupancy Sensor

- For use in enclosed offices, storage rooms, copier rooms and closets
- Delayed-OFF time settings: 10, 20 and 30 minutes with 30-second test mode

OSSNL-IDx PIR Occupancy Sensor

- LED Nightlight offers “guide light” functionality
- Features auto-ON/auto-OFF or manual-ON/auto-OFF

OSSMT-MD Multi-Technology Occupancy Sensor

- Time delay and sensitivity settings are continually adjusted to occupancy patterns (when in auto-adapt mode)
- Exclusive walk-through feature provides increased energy savings by not leaving the lights on for an extended period after only momentary occupancy

PR150-1L

- 1500 field-of-view and 350 sq. ft. of coverage is perfect for residential applications
- Manual-override available for use as a standard ON/OFF switch

IPP15-1L

- 1800 field-of-view and 900 sq. ft. of coverage is perfect for use in garages, basements, utility rooms and a variety of other residential areas

Description	Rating	Mfg. Part No.	Graybar ID
Decora wall switch PIR occupancy sensor with self-adaptive technology	Incandescent: 1800W @ 120VAC Fluorescent: 1800VA @ 120VAC 4000VA @ 277VAC	ODS15-ID	Call
Decora wall switch PIR occupancy sensor	Incandescent: 800W @ 120VAC Fluorescent: 1200VA @ 120VAC 2700VA @ 277VAC	ODS10-ID	Call
Occupancy sensor wall switch with nightlight	Incandescent: 800W @ 120VAC Fluorescent: 1200VA @ 120VAC 2700VA @ 277VAC	OSSNL-IDx	Call
Multi-technology wall switch sensor	Incandescent: 800W @ 120VAC Fluorescent: 1200VA @ 120VAC 2700VA @ 277VAC	OSSMT-MD	Call
Decora wall switch PIR occupancy sensor	Incandescent: 500W Fluorescent: 400 VA @ 120 VAC	PR150-1L	Call
Decora manual-ON occupancy sensor	15A, 120VAC	IPP15-1L	Call



ODS15-ID & ODS10-ID



OSSNL-ID



OSSMT-MD



PR150-1L



IPP15-1L

Occupancy Sensors

Wall Switch
Occupancy Sensors

Ceiling-Mount
Occupancy Sensor

Outdoor Motion Sensor

High Bay
Occupancy Sensor

The Power Base Adaptor

Wall-Mount
Occupancy Sensor

Ceiling-Mount Occupancy Sensor

Features

- Ideal for office areas with cubicles, general work spaces, classrooms, cafeterias and public areas in commercial facilities
- Self-adjusting settings continuously analyze and adjust for optimum performance
- Ultrasonic sensing for maximum sensitivity combined with passive infrared sensing to prevent false triggering from air conditioning and corridor activity

Description	Mfg. Part No.	Graybar ID
Multi-tech ceiling-mount occupancy sensor	OSC20-M0W	25026289



OSC20-M0W

Outdoor Motion Sensors

Features

- Ideal for a wide range of commercial/industrial settings including parking areas, storage facilities, warehouses, loading docks, marinas and garages
- Adjustable sensitivity and immunity to RFI signals reduces false triggers
- Temperature compensation feature ensures uniform performance in extreme hot or cold weather and during temperature fluctuations

Description	Rating	Mfg. Part No.	Graybar ID
Professional series outdoor PIR motion sensor with dual floodlights	Incandescent: 1000W @ 120VAC Fluorescent: 500VA @ 120VAC	PS200-1F	Call



PS200-1F

High Bay Occupancy Sensor

Features

- Designed for high-mounted areas such as warehouses, and manufacturing and other high-ceiling applications
- Self-contained sensor mounts directly to a luminaire or electrical box to provide local occupancy control using passive infrared technology – a microprocessor-based digital architecture minimizes false triggering

Description	Rating	Mfg. Part No.	Graybar ID
Passive infrared (high bay) occupancy sensor	Fluorescent: 800VA @ 120VAC 1200VA @ 277VAC 1500VA @ 347VAC	OSFHB-ITW	25096023



OSFHB-ITW

The Power Base Adaptor

Features

- Patent-pending ability to convert Leviton low-voltage ceiling sensors to line-voltage offers greater versatility in any application
- Two-piece terminal block provides fast, easy low-voltage connections to the sensor
- Zero-crossing circuitry for enhanced reliability and long-life operation

Description	Rating	Mfg. Part No.	Graybar ID
Occupancy sensor power base	15A, incandescent, electronic or magnetic fluorescent ballast; 3/4 HP at 120V/120/277 VAC	OPB15-0DW	Call



OPB15-0DW

Wall-Mount Occupancy Sensor

Features

- Ultrasonic sensing for maximum sensitivity combined with passive infrared sensing to prevent false triggering from air conditioning and corridor activity
- Non-volatile memory preserves all automatic and manual settings during power outages

Description	Mfg. Part No.	Graybar ID
Multi-tech wall-mount occupancy sensor	OSW12-M0W	25047055

Note: Colors: ivory (-I), white (-W), gray (-G), almond (-A), light almond (-T)



OSW12-M0W



Leviton Manufacturing

Industrial and Residential Surge Protective Devices

Surge Strips

Surge protective devices (SPD'S) are designed to reduce the random energy surges of voltage transients and electrical noise on the power supply line. They can be used individually or as part of a coordinated application strategy, called network protection, to protect sensitive electronic equipment, in industrial, commercial and residential locations, from the stress and degradation inflicted by voltage transients. Leviton surge protective devices are listed to UL 1449 Second Edition Standards.

Features

- Designed to help protect your computers, peripherals and other electronic equipment from electrical power surges, transients and noise spikes
- Features a robust power input cord, resettable circuit breaker and internal fusing circuit protection - S1000 models feature six outlets; S2000 models feature nine outlets



S1000-OPS/PTC



S2000-OPS/PTC

Description	Mfg. Part No.	Graybar ID
S1000 series surge strip (6 outlets, coax/telco)	S1000-OPS/PTC	Call
S2000 series surge strip (9 outlets, coax/telco)	S2000- OPS/PTC	Call

Four-Outlet Plug-In Surge Protective Devices

Features

5300 Series

- Superior voltage-smoothing helps minimize high-frequency noise
- Applications include point of sale systems, computer maximum-protection DPI terminals, digital electronic cash registers, PCs and peripherals, digital audio and video installations, microwave ovens, copy machines, digital scales and computer-controlled office equipment

5100 Series

- Non-inductive design for compatibility with UPS and SPS or transformer systems
- Multi-component suppression circuitry
- Applications include PCs and peripherals, electronic cash registers, digital sound systems, video equipment and microwave ovens



5300-P



5100-P

Description	Color	Mfg. Part No.	Graybar ID
15A, 120VAC4-outlet maximum-protection DPI	Beige	5300-P	88311278
15A, 120VAC4-outlet heavy-duty DPI	Beige	5100-P	88038981

Surge Protective Receptacles

Features

- Provides hard-wired point-of-use surge protection for electronic equipment in industrial, commercial and residential applications
- Three-level surge protection for phase to neutral, phase to ground and neutral to ground
- Back- and side-wired for easy feed-through installation
- Monitor/Indicator LED is ON continuously when protection is active and OFF when protection circuit is deactivated due to excessive transients

Description	Color	Mfg. Part No.	Graybar ID
15A Duplex TVSS w/indicator light	I, W, A, T, GY, B	5280	Call
20A Duplex TVSS w/indicator light	I, W, GY, B, EB	5380	Call
15A Duplex surge suppressor w/ indicator light, audible alarm	I, W, A, GY, B, EB	7280	Call
20A Duplex surge suppressor w/ indicator light, audible alarm	I, W, A, GY, B, EB	7380	Call



5280



5380



7280



7380

Surge Protective Panels

Features

- 51110-PTC provides protection for two telco lines and two coax feeds
- 51110-CT8 provides protection for four telco lines and two coax feeds

Description	Rating	Mfg. Part No.	Graybar ID
1-Phase, 3-wire and ground	120/240VAC	51110-1	25040542
Multimedia panel: 1-phase, 3-wire and ground w/2 pairs of phone/fax/modem terminals and CATV/satellite F-connectors	120/240VAC	51110-PTC	22052842
Multimedia panel: 1-phase, 3-wire and ground w/ 4 pairs of phone/fax/modem terminals and CATV/satellite F-connectors	120/240VAC	51110-CT8	25040543



51110-PTC

Branch Panel Surge Protective Devices

Features

- Standard J-box metal enclosures with pre-punched knockouts; 51120-3R features NEMA 3R enclosure
- Compatible with Decora home controls

Description	Rating	Mfg. Part No.	Graybar ID
1-Phase, J-box metal enclosure	120/240VAC	51120-1	88311271
1-Phase, NEMA 3R outdoor enclosure	120/240VAC	51120-3R	97126692
1-Phase, 3-wire and ground; with RJ11 telephone and F-connector CATV/satellite modules	120/240VAC	51120-PTC	99419545



51120-1



51120-3R



Surge Protective Devices

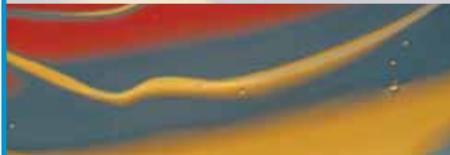
Surge Strips

Four-Outlet Plug-In Surge Protective Devices

Surge Protective Receptacles

Surge Protector Panels

Branch Panel Surge Protective Devices



Cooper Lighting

Lighting Solutions

Sure-Lites StairLite 2 Stairwell Lighting System

StairLite 2 Stairwell Lighting System

Setting a new standard for stairwell lighting, the StairLite 2 is designed to satisfy all stairwell lighting requirements in one easy-to-install package. The StairLite 2 is a surface-mounted, two-lamp fluorescent lighting fixture that incorporates an integrally mounted ultrasonic motion detector, a system display panel and an optional battery backup. The motion sensor can control one or both lamps. Bi-level lamp operation is standard so that one lamp will remain on constantly for security, and the motion detector will activate the second lamp as needed to significantly reduce the operating cost. In addition, during a power failure, the StairLite 2 converts to an emergency light and will continue to operate for a minimum of 90 minutes. The StairLite 2 is designed for use in stairwells or any other areas of a building that have a low occupancy level.



Features

- 4 ft. T8 fluorescent lamps with high-impact clear acrylic lens
- Ultrasonic motion detector with adjustable time delay and motion sensitivity
- Two, single lamp, program rapid start ballasts for increased lamp life
- Heavy-duty steel housing with a durable white powder-coat finish
- Variety of electrical and mounting knockouts for easy installation
- Maintenance-free, sealed, nickel cadmium battery with 90-minute runtime
- Choice of input voltage: 120 or 277 VAC, 60Hz
- UL 924 listed, life safety code (NFPA 101), NEC/OSHA and most state and local codes



Mfg. Part No.	Operation	Voltage	Graybar ID
STL24	AC only	120 VAC	Call
STL25	Self-powered	120 VAC	Call
STL247	AC only	277 VAC	Call
STL257	Self-powered	277 VAC	Call

Notes: All units are white and 48-1/4" L x 11" W x 3-7/8" D
Configurations vary. Contact your local Graybar office for assistance in ordering.

Sure-Lites PHL Series Photoluminescent Exits

Photoluminescent Self-Luminous Exit Signs

No electricity is required for the Sure-Lites photoluminescent exits! Photoluminescent "glow-in-the-dark" exits are designed to absorb and store energy from existing light sources. The signs do not require electricity and are non-radioactive, non-toxic and fire-resistant. This energy-efficient exit is ideal for areas where electrical wiring is either difficult or unavailable. The PHL series exits do not require regular maintenance and have a life expectancy of at least 25 years.

Features

- At least 90 minutes of illumination in the event of a power failure
- Life expectancy of at least 25 years
- Maintenance-free
- High-brightness strontium oxide aluminate photoluminescent pigment applied directly onto housing
- Heavy-duty, all-aluminum housing is impact resistant, corrosion proof and flame retardant
- Ceiling, wall or end mounting
- Non-radioactive and non-toxic
- Quick installation (no wiring)
- Universal, field selectable chevrons
- UL 924 and CUL listed, meets Life Safety Code (NFPA 101)



Mfg. Part No.	Face Option	Letters Color (Outline)	Housing Color	Accessory	Graybar ID
PHL1R	Single face	Red	Red		Call
PHL1RBA	Single face	Red	Brushed aluminum		Call
PHL2R	Double face	Red	Red		Call
PHL2RBA	Double face	Red	Brushed aluminum		Call
PHL1G	Single face	Green	Green		Call
PHL1GBA	Single face	Green	Brushed aluminum		Call
PHL2G	Double face	Green	Green		Call
PHL2GBA	Double face	Green	Brushed aluminum		Call
PHLS				Clear acrylic shield	Call
PHLJ				Large canopy (J-box)	Call

Notes: All units are 14-9/16" W x 7-7/8" T x 11/16" D
Configurations vary. Contact your local Graybar office for assistance in ordering.





Cooper Lighting

Lighting Solutions

Halo Energy Star/Title 24 Dimmable CFL Downlights

Energy Star/Title 24 Dimmable CFL Downlights

Halo's Energy Star-rated and Title 24-compliant compact fluorescent downlights can reduce energy consumption while providing generous light output with pleasing color temperatures. The 5 in. and 6 in. aperture family is available in 18, 26 and 32 watts for both new construction and remodeling projects. Dimming capability is available on the 26 and 32 watt housings. The housings are both Air-Tite™ and IC (insulated ceiling) rated; they meet restricted air flow code requirements and can be installed in direct contact with ceiling insulation. The Air-Tite™ feature saves energy by preventing airflow from a conditioned room into the attic. Trims are offered in baffle, reflector and lensed shower styles.

Features

- 5 in. and 6 in. new construction and remodel housings
- Available with 18, 26 and 32 watt compact fluorescent lamps
- Standard residential wiring 120V, 60Hz (two-wire plus ground e.g. NM 14/2 or NM 12/2)
- Meets all applicable requirements of California Title 24
- Housings are IC rated for direct contact with insulation
- Air-Tite™ construction prevents airflow between attic and living areas
- All housings include an electronic compact fluorescent ballast
- A wide choice of trims allows for the creation of different lighting effects in different areas with one basic housing
- Installation is quick and easy with exclusive Halo Got Nail™ bar hangers, slide-n-side junction box and a choice of remodel housing for retrofit applications
- Dimming models are:
 - H273ICAT1D – 6 in. new construction 26WDTT and 26/32W TTT
 - H273RICAT1D – 6 in. remodel 26WDTT and 26/32W TTT
 - H573ICAT1D – 5 in. new construction 26WDTT and 26TTT
 - H573RICAT1D – 5 in. remodel 26WDTT and 26WTTT
- 100% to 15% dimming range



H273ICAT1D



H573ICAT1D



H273RICAT1D



H573RICAT1D

Description	Mfg. Part No.	Graybar ID
6" - 13W CFL recessed housing	H270ICAT	Call
6" - 18W CFL recessed housing	H271ICAT	25055678
6" - 26W CFL recessed housing	H272ICAT	25001808
6" - 26/32W CFL recessed housing with dimming ballast	H273ICATID	Call
6" - 13W CFL remodel recessed housing	H270RICAT	Call
6" - 18W CFL remodel recessed housing	H271RICAT	Call
6" - 26W CFL remodel recessed housing	H272RICAT	25111955
6" - 26/32W CFL remodel recessed housing with dimming ballast	H273RICATID	Call
6" Reflector trim available in specular (SC), haze (H), champagne gold (CG), residential gold (RG)	470	Call
6" Reflector trim available in clear (TS) and matte (MTS)	ERT770TS	25059075
6" White reflector trim	ERT771TS	Call
6" Baffle trim available in black baffle with clear (BA), white baffle with clear (WB), white baffle with white (WWB)	406	Call
6" Baffle trim available in black baffle with white (TS) and white baffle with white (WHTTS)	ERT772	Call
6" Lens trim available with albalite lens (P) and albalite lens shower trim (PS) for 13W and 18W only	70	Call
6" Fresnel lens (P) and Fresnel lens shower trim (PS) for 13W and 18W only	73	Call
6" All glass diffuser	75	88122491
6" Albalite lens shower trim with reflector	270PS	Call
6" Drop lens shower light	271PS	Call
6" Dome shower light with reflector	272PS	Call
6" Regressed albalite lens with white baffle	370W	Call
6" Open wall wash	424P	88122425
5" - 13W CFL recessed housing	H570ICAT	Call
5" - 18W CFL recessed housing	H571ICAT	Call
5" - 26W CFL recessed housing	H572ICAT	Call
5" - 26W CFL recessed housing with dimming ballast	H573ICAT1D	Call
5" - 13W CFL remodel recessed housing	H570RICAT	Call
5" - 18W CFL remodel recessed housing	H571RICAT	Call
5" - 26W CFL remodel recessed housing	H572RICAT	Call
5" - 26W CFL remodel recessed housing with dimming ballast	H573RICATID	Call
5" Coilex baffle with reflector in black (P) or white (W)	5016	Call
5" Reflector trim available in specular (SC), haze (H) and residential gold (RG)	5021	Call
5" Wall wash trim with black baffle (P) or white baffle (W)	5030	99658372
5" Albalite lens shower trim with reflector trim	5051PS	25019337
5" Dome shower light with reflector trim	5054PS	25082780
5" Black metal baffle trims or black metal baffle with torsion springs (TS)	ERT513	99945646
5" White metal baffle trim (T) or white metal baffle with torsion springs (TS)	ERT513WH	Call
5" Fresnel lens shower light with reflector trim	ERT552	25057205

Notes: All trims have torsion springs except 75, 424P, ERT513 and 5030
Configurations vary. Contact your local Graybar office for assistance in ordering.



GE Compact Fluorescent Lamps

Reducing Energy Costs By Up To 75%

Next Generation Spiral® – T2 Lamps

Extra Small Size with Big Energy Savings

- Extra small size – some even smaller than their incandescent equivalent
- Up to \$54.00 in energy savings
- Extra long life – 12,000 hours
- Quality color rendering
- All GE T2 CFL lamps are Energy Star® qualified



Description	Wattage Replaced	Mfg. Part No.	MOL(°)	Watts	Rated Life Hours	Rated Life vs. Incand.	Est. Energy Savings	Initial Lumens	Lumens vs. Incand.	Graybar ID	
FLE10HT2/2/827	40	86241	3.7	10W	30	12,000	12x	\$ 36.00	580	112%	96019898
FLE13HT3/2/827	60	86256	3.9	13W	47	12,000	12x	\$ 54.00	870	113%	96019896
FLE15HT2/2/827	60	86271	4.1	15W	45	12,000	12x	\$ 54.00	950	113%	25094496

Super Long Life Spiral® – T3 Lamps

Big Energy Savings with Very Long Life

- Super long life spiral lamps provide extended energy savings with up to 12,000 hour life
- Up to \$121.00 in energy savings
- Dimming and 3-way available
- All super long life spiral lamps are Energy Star® qualified

Description	Wattage Replaced	Mfg. Part No.	MOL(°)	Watts	Rated Life Hours	Rated Life vs. Incand.	Est. Energy Savings	Initial Lumens	Lumens vs. Incand.	Graybar ID	
FLE10HT3/2/XL	40	80936	4.4	10W	30	12,000	12x	\$ 36	550	112%	25031407
FLE15HT3/2/XL	60	80937	4.8	15W	45	12,000	12x	\$ 54	950	113%	25032951
FLE15HT3/2/DV	60	89619	5.2	15W	45	10,000	10x	\$ 45	900	110%	25094493
FLE20HT3/2/XL	75	80888	4.8	20W	55	12,000	16x	\$ 66	1300	111%	25052110
FLE23HT3/2/XL	90	80889	5.1	23W	67	12,000	12x	\$ 80	1600	109%	25052111
FLE26HT3/2/XL	100	80890	5.2	26W	74	12,000	16x	\$ 89	1700	100%	99438332
FLE26HT3/2/DV	100	89621	5.8	26W	74	10,000	12x	\$ 74	1700	100%	25094494
FLE29HLX/2/XL/827	135	81514	6.3	29W	71	12,000	16x	\$ 85	2200	130%	22128666
FLE32HLX/2/827	135	24743	6.3	32W	103	8,000	8x	\$ 82	2200	92%	25047651
FLE42HLX/2/XL	150	80891	6.4	42W	108	12,000	16x	\$ 130	2700	101%	99438336
FLE29HLX/2D3/827	50-150	81515	6.0	12/23/29W	121	10,000	10x	\$ 121	600/1600/2250	100%	25052113



Long Life Spiral® Lamps

High Lumen Output with Great Energy Savings

- 42 Watt spiral provides true 150 watt equivalent light output that fits a standard 8.5 in. harp
- All spiral lamps are Energy Star® qualified
- High performance with flicker-free start

Description	Wattage Replaced	Mfg. Part No.	MOL(°)	Watts	Rated Life Hours	Rated Life vs. Incand.	Est. Energy Savings	Initial Lumens	Lumens vs. Incand.	Graybar ID	
FLE10HT3/2/827	40	15829	4.4	10	30	8,000	8x	\$ 24	520	106%	92081669
FLE10HT3/2/841	40	25182	4.4	10	30	8,000	8x	\$ 24	520	106%	22117212
FLE15HT3/2/827	60	15831	4.8	15	45	8,000	8x	\$ 36	950	113%	99524183
FLE15HT3/2/841	60	25183	4.8	15	45	8,000	8x	\$ 36	950	113%	22017465
FLE20HT3/2/827	75	15834	4.7	20	55	8,000	10x	\$ 44	1200	103%	88056019
FLE20HT3/2/841	75	25186	4.7	20	55	8,000	10x	\$ 44	1200	103%	22016635
FLE26HT3/2/827	100	15836	5.2	26	74	8,000	10x	\$ 59	1700	101%	22066800
FLE26HT3/2/841	100	25185	5.2	26	74	8,000	10x	\$ 59	1700	101%	22016677



Super Long Life Biax® Lamps

Big Energy Savings with Very Long Life

- Super long life biax lamps extend energy savings for up to 15,000 hours
- Amalgam technology allows for consistent light output in a variety of applications and a wide temperature range
- All super long life biax lamps are Energy Star® qualified

Description	Wattage Replaced	Mfg. Part No.	MOL(°)	Watts	Rated Life Hours	Rated Life vs. Incand.	Est. Energy Savings	Initial Lumens	Lumens vs. Incand.	Graybar ID	
FLE12TT3/827	40	20702	4.4	12	28	15,000	15x	\$ 42	600	122%	95016590
FLE15TT3/827	60	12004	4.9	15	45	15,000	15x	\$ 68	900	107%	96032879
FLE20TT3/827	75	12008	5.5	20	55	15,000	20x	\$ 83	1200	103%	89024422
FLE24QBX/A/827	90	23669	5.6	24	66	12,000	16x	\$ 72	1520	104%	22086013
FLE28QBX/A/827	100	46270	5.9	28	72	12,000	16x	\$ 86	1750	104%	94056315



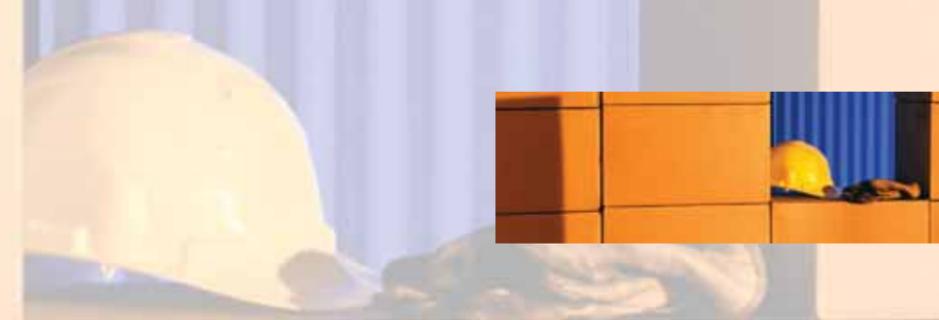
Power and Lighting Systems

Next Generation Spiral® – T2 Lamps

Super Long Life Spiral® – T3 Lamps

Long Life Spiral® Lamps

Super Long Life Biax® Lamps



GE Compact Fluorescent Lamps

Square D

Reducing Energy Costs By Up To 75%

PowerLogic® High Density Metering

CFL Reflectors

New Designs Provide Improved Aesthetics with Energy Savings

- Amalgam technology
- All reflectors feature soft light for diffuse downlighting
- Improved smaller size makes these compact reflectors perfect for retrofitting
- Available in dimming and pink reflectors
- All reflectors are Energy Star® qualified (except the pink reflectors)



Description	Wattage Replaced	Mfg. Part No.	MOL(°)	Watts	Watts Saved	Rated Life Hours	Rated Life vs. Incand.	Est. Energy Savings	Initial Lumens	Lumens vs. Incand.	Graybar ID
FLE11/2/R20XL827	45	80892	4.7	11	34	10,000	5x	\$ 34	400	82%	25052180
FLE15/2/R30XL	65	80893	5.5	15	45	10,000	5x	\$ 45	750	100%	25033743
FLE15/2/DV/R30	65	21709	5.6	15	50	6,000	3x	\$ 30	720	100%	22083569
FLE15/R20/2/PINK	65	89617	5.6	15	50	10,000	5x	\$ 45	700	100%	99538663
EL23/R25/SW	65	25418	4.9	23	42	15,000	8x	\$ 63	1100	150%	88126383
EL23/R25/WW	65	12273	4.9	23	42	15,000	8x	\$ 63	1100	150%	95006555
FLE26/2/R40XL827	90	80894	5.9	26	64	10,000	5x	\$ 64	1300	128%	25052250
FLE26/R20/2/PINK	90	89618	6.6	26	64	10,000	5x	\$ 67	1400	100%	25094492
FLE26/2/A4/DV/R40	90	21716	6.9	26	64	6,000	3x	\$ 38	1300	128%	22128888
FLE26/2/PAR38	90	80895	5.5	26	64	10,000	4x	\$ 64	1300	128%	22043494

CFL Decorative Shapes

Providing More Compact Fluorescent Lighting Options for Decorative Applications

- Amalgam technology
- GE offers a wide variety of shapes to expand the application of compact fluorescent lamps
- Candle-shaped CFLs are available in both medium and candelabra base
- Familiar A-line shape is offered in several wattages
- All medium-based decorative shape CFLs are Energy Star® qualified



Description	Wattage Replaced	Mfg. Part No.	MOL(°)	Watts	Rated Watts Saved	Rated Life Hours	Rated Life vs. Incand.	Est. Energy Savings	Initial Lumens	Lumens vs. Incand.	Graybar ID
FLE5/2/CAC/827	15	16098	4.8	5	10	6,000	3x	\$ 6	200	100%	22071331
FLE5/2/CAM/827	15	16099	4.8	5	10	6,000	3x	\$ 6	200	100%	22071332
FLE7/2/CAC/827	25	16103	5.2	7	18	6,000	3x	\$ 11	370	100%	22071333
FLE7/2/CAM/827	25	16104	5.2	7	18	6,000	3x	\$ 11	370	100%	22071334
FLE9/2/CAC/827	40	16105	5.4	9	31	6,000	3x	\$ 19	430	100%	22071335
FLE9/2/CAM/827	40	16106	—	9	31	6,000	3x	\$ 19	430	100%	22071336
FLE11/2/A19/XL	40	89622	4.2	11	29	10,000	10x	\$ 29	500	102%	25094483
FLE11/2/G25/XL	40	89629	4.2	11	29	10,000	5x	\$ 29	500	100%	25094484
FLE11/2/T14/XL	40	89631	4.1	11	29	10,000	5x	\$ 29	500	100%	25094485
FLE14/2/TC16/BUG	60	47464	5.0	14	46	10,000	10x	\$ 45	750	112%	25052776
FLE14/2/TC16/SWCD	60	85384	5.0	14	46	10,000	10x	\$ 46	750	89%	25078984
FLE15/S/A19XL	60	89632	4.6	15	45	10,000	10x	\$ 45	825	98%	25094486
FLE15/S/G25XL	60	89633	4.6	15	45	10,000	7x	\$ 45	800	—	25094302
FLE20/2/A19/XL	75	89634	5.7	20	55	10,000	13x	\$ 55	1100	94%	25094488
FLE20/2/T19/XL	75	89635	5.4	20	55	10,000	10x	\$ 55	1100	100%	25094489
FLE26/2/T21/XL	100	89636	6.0	26	74	10,000	10x	\$ 74	1350	100%	25094490

Pre-Assembled HDM Enclosures

Flexible PowerLogic® high density metering enables you to select any number of a single meter type up to the cabinet's threshold, giving you the option to expand as your needs dictate. If your facility can accommodate up to eight tenants, but only five units are occupied, you can select an 8-Meter Cabinet and order it with only five meters. Order more meters and wiring harnesses as your requirements increase. High density metering cabinets are available with a variety of PowerLogic meters offering a comprehensive range of capabilities. If you need I/O, improved power quality or enhanced communications, simply select the device that best suits your application when ordering your HDM cabinet.

Features and Benefits

- Simple installation – mounting channels and surface mount flanges simplify installation for the 8- and 16-meter enclosures - installation keyholes simplify installation for the 1- and 4-meter enclosures
- Accuracy – ANSI C12.16. 1.0 and ANSI C12.20. 0.5 accuracy class compliant metering
- Flexibility – choose from 120/240 volt (12) single phase, 120/208 volt (12), 240 volt (12) three phase, 277/480 volt (48) three phase and 480 volt 3-wire (4T) three phase
- Tamper resistant – 1-meter and 4-meter type 3R outdoor, or type 1 indoor cabinets and 8-meter and 16-meter indoor cabinets
- Space saving – a small footprint occupies a fraction of the space of traditional meter centers
- Accessibility – easy access to power, communication connection points and the shorting block
- Scalability – factory-installed wiring harness lets you easily add new meters to empty slots as needs change
- Industry standard communications – standard RS485 Modbus® or optional Modbus® Ethernet TCP (not available on the 1-meter enclosure)
- Compatibility – integrate with existing energy management systems and RTUs, or with a variety of advanced PowerLogic energy management software to increase property values by eliminating previously uncontrolled expenses

Applications

- Demand control – discover your facility's electricity usage patterns, total period energy consumption and peak demand in order to establish a baseline to reduce demand charges and lower long-term energy costs
- Energy cost allocation – allocate facility energy costs based on actual usage by departments, tenants and cost center – use the information to learn exactly where energy is being consumed and identify energy conservation measures that won't heavily impact people or processes
- Tenant sub-billing – easily and accurately bill tenants by their actual energy usage, rather than invoicing by square footage – use the information to offer reduced lease rates



Power and Lighting Systems

CFL Reflectors

CFL Decorative Shapes

Power and Lighting Systems

Pre-Assembled HDM Enclosures



Square D

PowerLogic® High Density Metering

HDM Cabinets

PowerLogic high density meter cabinets (HDM) are a high-quality, low-cost solution for tenant metering/billing, monitoring facility energy usage or aggregating energy purchases for reduced rates. PowerLogic HDM cabinets are ideal for retrofit installations or new construction and are easy to specify, purchase and install. They are available in multiple configurations, can be equipped with a choice of accurate, reliable PowerLogic meters and offer a small footprint that is ideal for mounting next to an existing panelboard.

An HDM cabinet along with PowerLogic tenant metering software offers an end-to-end solution for cost allocation and tenant sub-billing. Unlike traditional submetering products which must be manually read, have limited functionality or offer inefficient sub-billing software, an HDM solution can provide a quick and easy means to satisfy government regulations for energy saving initiatives. It offers a wide range of parameters, outstanding reliability, high accuracy, open architecture protocols for simple system integration and, when paired with a PowerLogic EGX solution, Ethernet and web browser data access.

With all the flexibility, functionality and ease of use that you have come to expect from Square D/Schneider Electric products, and supported by the largest distribution, sales and service organization in the industry, you can count on a PowerLogic HDM solution to fit your needs now and into the future.

PowerLogic High Density Metering is an excellent choice for energy monitoring in:

- Multi-family residential buildings
- Commercial buildings
- Retail malls/food courts
- Hotels and entertainment venues
- Office buildings
- Airports and other transportation facilities

PowerLogic PM210 series

The PowerLogic power meter PM210 is an easy-to-use, cost-effective meter that offers the basic measurement capabilities required to monitor an electrical installation. The compact 96 x 96 mm meter simultaneously monitors all three phases of voltage and current. Energy and demand readings provide the information needed to measure and control energy costs. It features an easy-to-read, anti-glare, back-lit LCD display, an intuitive interface with context-based navigational menus and summary screens and bar charts that provide system status at a glance. It also comes complete with communications via Modbus RS485 port.

PowerLogic PM750

The PowerLogic power meter series 700 has all the measurement capabilities to monitor an electrical installation in a single 96 x 96 mm unit. With its large display, you can monitor all three phases and neutral simultaneously. 8- and 16-meter HDM cabinets can be ordered with the PM710, which offers basic metering with THD and min/max readings, plus one RS485 port for Modbus communication. 1- and 4-meter cabinets can be equipped with the full-featured PM750, which provides all the functionality of the PM710 plus increased accuracy, two digital inputs, one digital output, 15 user-configurable alarms and signed power factor.

PowerLogic ION6200

The PowerLogic ION6200 meter provides outstanding quality, versatility and functionality in a low-cost, ultra compact unit. It is simple to use and offers a bright LED display for superior readability. In addition to offering an extended operating temperature range that makes it ideal for outdoor applications, the ION6200 also comes complete with four-quadrant power, demand, energy, power factor and frequency measurements.

Note: Please contact us to discuss cabinets equipped with PowerLogic PM800 series meters

PowerLogic® Tenant Metering Software

PowerLogic® tenant metering commercial edition software (TMSCE) complements your high-density metering solution by providing a low-cost method to automatically collect meter data and generate tenant billing or account statements. Equipped with a proven billing engine, TMSCE provides fully customizable billing periods and rate structures so you can better manage energy costs - and the bottom line. The intuitive graphical interface makes the system easy to use for even the most novice PC users, while fully customizable billing periods and rate structures provide the flexibility necessary to manage a wide range of tenants, multiple locations and comprehensive utilities. Its export tool also provides data integration, with third-party billing services, to enable complete outsourcing of your utility billing activities. Well suited for tenant billing and energy monitoring, Square D PowerLogic tenant metering commercial edition software with PowerLogic high density metering offers a single system for all your submetering needs.

Selection Guide	ION6200	PM210	PM750
General			
Use on LV and HV systems	■	■	■
Energy and power accuracy	ANSI C12.20. 0.5 Accuracy Class	ANSI C12.16. 1.0 Accuracy Class	ANSI C12.20. 0.5 Accuracy Class
Instantaneous RMS values			
Current (phases and neutral)	■	■	■
Voltage (L-L, L-N)	■	■	■
Frequency	■	■	■
Power			
Real	■	■	■ ¹
Reactive	■	■	■ ¹
Apparent	■	■	■
Power factor total	■	■	■ ²
Energy values			
Active, reactive, apparent energy	■	■	■ ¹
Demand values			
Current (present and max.)	■	■	■
Active, reactive, apparent power	■	■	■
Power quality measurements			
Harmonic distortion (current, voltage)	■	■	■
Data recording			
Min/max of instantaneous values	—	—	■
Display and I/O			
Backlit LCD display	LED display	■	■
Pulse output	2	—	1
Pulse input	—	—	2
Communication			
RS485 port	■	■	■
Modbus protocol	■	■	■
Alarms	—	—	■

¹ Real and reactive power and energy are signed net consumptions.
² Signed power factor



Square D Meter Centers

Square D UL-listed indoor or rainproof MP METER-PAK™ and EZ METERPAK™ meter centers offer ideal solutions for all your multimetering applications.

For two- to six-unit apartments, MP METERPAK meter centers give you the most reliable and easiest-to-install metering devices available. If you have metering applications which require multiple meter sockets, or where a main device is used for the incoming service, EZ METER-PAK meter centers offer the optimum in system flexibility, quality performance and ease of installation.

Features and Benefits

- Ready for mounting right out of carton, with no disassembly or adjustment
- Time-saving installation features, including a separate mounting channel and swingable mounting brackets
- 9 in. centers on 125A and 200A devices to allow more sockets per branch device, reducing the need for branch devices and overall wall space
- Compact, lighter-weight enclosures with ample wiring space to simplify installation and handling
- A full line of metering devices to meet EUSERC requirements
- Factory bussing with Belleville washers on all electrical connections to ensure high integrity
- Meter socket combinations with horn bypass, no bypass or lever bypass and four-, five- or seven-jaw configurations to meet a wide range of applications
- Tin-plated copper, spring-reinforced meter socket jaws for long-lasting performance
- Sealing provisions designed to meet utility sealing requirements, including stainless steel cover hasps for long-lasting security in corrosive environments



Power and
Lighting Systems

EZ METER-PAK™

MP METER-PAK™

EZ METER-PAK™

Square D EZ METER-PAK™ meter centers are available from one- to six- high meter-breaker units. Greater selectivity means faster, easier installations. Plug-on QO® two-pole circuit breakers are used in 125A units, while 200A residential units use factory-installed Q2 two-pole circuit breakers.

Features and Benefits

- Top and bottom wiring gutters with knock-outs allow branch circuits to exit from either the top, bottom or back of the unit
- Meter-breaker units can be supplied with either 1-phase 3-wire, or 3-phase 4-wire service
- The main bus on residential units with 40A to 200A circuit breaker provisions is 800A, or 1200A in units using commercial 200A and 400A branch circuit breakers
- To suit individual applications, residential and commercial devices may be interconnected
- Basic devices for connection to 3-phase 4-wire 120/208Vac service are factory phase balanced to save installation time – the phase balancing may be modified in the field to meet most system variations
- 120/240Vac 1-phase, 120/208Vac 1-phase, 120/208Vac 3-phase
- 1200A bussing available on all devices
- Meter sockets three to six high stack available for 125A, two to four high stack available for 200A residential, one to four high stack available for 200A commercial, one and two high stack available for 400A commercial
- Ring and ringless style trims
- Factory-installed horn bypass and/or fifth jaw available for ringless devices
- Branch circuit breakers (40-400A)
- EUSERC devices available
- NEMA type 3R for indoor or outdoor use
- Up to 100,000 AIC



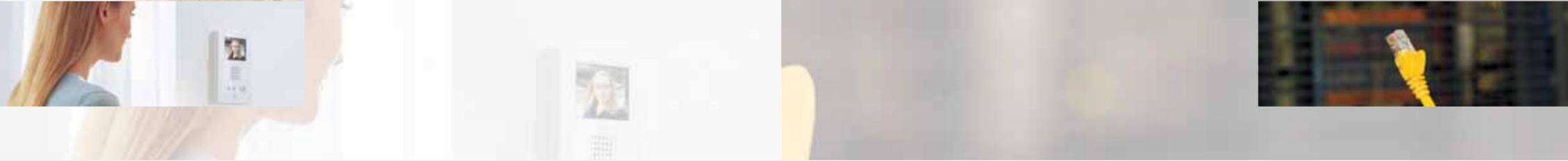
MP METER-PAK™

Square D MP METER-PAK™ devices are available in two through six meter socket configurations. They're designed for use with QO® two-pole circuit breakers ranging from 40A to 125A and QOM2-MM branch circuit breakers ranging from 100A to 200A.

Features and Benefits

- 120/240Vac 1-phase, 120/208Vac 1-phase
- Bussing: 200A up to 800A
- 125A and 200A branch meter/breaker devices
- Ring and ringless style trims
- Factory-installed horn bypass and/or fifth jaw available on ringless devices
- Branch circuit breakers 40-200A
- Can be upgraded to meet EUSERC requirements
- NEMA type 3R for indoor or outdoor use





Aiphone Building Security

Speco Technologies Solutions

Multi-Tenant Solutions

Surveillance

GH Series

Audio-Video Entry Security System

In today's society, an increasing demand is placed on building security. An entry system must have certain criteria: it needs to match a tenant's lifestyle, must be reliable, simple to use and economical to install. Aiphone's GH system meets all of these demands.

The GH system offers simple, hands-free tenant stations and provides unparalleled reliability. This system can accommodate up to 500 units, 16 entrance panels and four security guard stations. Installation is quick and easy using no more than four wires, and the included programming software is intuitive to use.

Features and Benefits

- Entrance panels come in two styles, digital name scrolling or direct-select
- Crystal-clear video
- Convenient tenant search
- Customizable welcome message
- Card readers, access codes and postal lock available
- System does not tie up phone lines
- Up to four units per tenant
- Door release
- Compact, elegant and durable tenant stations with color monitors
- Tenant stations feature emergency Call to guard station
- Security guard station has the ability to screen visitors before Calling tenant

Description	Mfg. Part No.	Graybar ID
Audio-video entrance station using digital name scrolling	GHV-DES	25062180
Audio only entrance station using digital name scrolling	GHA-DES	25062181
Hands-free color monitor tenant station (white)	GH-1KD	25062169
Hands-free color monitor tenant station (silver)	GH-1KDS	25131415
Hands-free audio only tenant station (white)	GH-1AD	25062171
Security guard-concierge station	GH-MK	25062173

GH Series Control Units and Accessories

Description	Mfg. Part No.	Graybar ID
Audio control unit	GH-BC	25062174
Video control unit	GH-VBC	25062175
4-Tenant video distribution unit	GH-4Z	25062176
Expanded audio control unit	GH-BCX	25062177
ExpanInit	GH-VBX	25062178
Desktop stand for GH-MK	GFW-S	25029913
Power supply, 120V AC	PS-2410LC	25067118



Intensifier Series Cameras

Features and Benefits

- This camera series features super-high resolution of 540 TV lines and can see color in the dark
- Super BLC/WDR: adjustability for your toughest back-lit situations
- Intensifier: amplifies and maximizes existing light to generate color pictures where other cameras can't
- OSD: all camera functions can be controlled using an "easy to follow" OSD
- Options to control via: on board push buttons
- Wireless IR remote/RS485C combination (model RC-INT485) 1 KM distance
- DNR (digital noise reduction): reduces video noise in low light situations
- Day/night setting: camera can always remain in color or automatically shift into B/W in low light conditions
- The advanced noise reduction circuitry in the intensifier camera coupled with the virtual 3D filter that is built into the DSP will allow your DVR to have 30% better compression in scenes that were typically subject to video noise - this means that your low light and nighttime pictures will not only look better, but they will also use up less hard drive space
- RoHS compliant
- Dual voltage operation L 12V DC or 24 VDC
- Intensifier technology generates color picture with up to .002 of a lux
- Advanced noise reduction

Description	Mfg. Part No.	Graybar ID
Intensifier bullet camera 3-9 mm auto iris day/night lens external adj IR remote control	HT-INTB1	25109791
Intensifier bullet camera 5-50 mm auto iris day/night lens external adj IR remote control	HT-INTB2	25109792
Intensifier traditional camera uses C or CS type lenses not included. IR remote control	HT-INTT5	25109795
Intensifier tamperproof dome 3-9 mm auto iris day/night lens IR remote control	HT-INTD3	25109793
Intensifier IR series square bullet camera, 3.8-9.5 mm AI lens, 520/580 line, weatherproof, dual volt	HTINTB4	25185898
Intensifier tamperproof dome 5-50 auto iris day/night lens IR remote control	HT-INTD4	25109794
Intensifier bullet camera 2.8-12 mm AI VF lens 560 lines "on board controls" dual voltage	HT-INTB8	25112130
Intensifier bullet camera 5-50 mm AI VF lens 560 lines	HT-INTB9	25183300
Intensifier bullet camera 9-22 mm AI VF lens 560 lines	HT-INTB10	25183304



HT-INTB1/HT-INTB2



HT-INTD3/HT-INTD4



HT-INTT5



HT-INTB8

Security and Notification Solutions

Intensifier Series Cameras



Commercial Sound

Commercial Amplifiers

60W PA Amplifier with AM/FM

This 60 watt amplifier from Speco Technologies is UL listed. It has an FM/AM tuner with 8 function CD player.

Features and Benefits

- 60 watt RMS/90 watt max
- AC 115V/230V 50/60Hz
- 60-15kHz; 4 MIC inputs (1mV; 250 ohm)
- One AUX input (200mV 47K)
- One telephone (.1-1V 600 ohm)
- 4/8/16 ohms and 25/75 V line outputs
- Music on hold feature
- Separate bass and FM/AM tuner with 8 function CD player



P-60-FACD

30W Contractor Series PA

UL listed, our two channel contractor series mixer/amplifier is a 30 watt amplifier. It features an auto mute function, music on hold output with separate level control (600 ohm line and one watt 8 ohm), 600 ohm telephone line input with level control, bass and treble tone controls, front panel level controls and manual muting contacts. In addition to the telephone line input, this unit accepts inputs from two sound sources. Each source utilizes a microphone input (terminal strip). Source 1 also offers the option of an auto summing stereo auxiliary RCA input. Outputs include a choice of 4, 8 and 16 ohm as well as 70 and 25 volt line outputs. Rack (PBM-RK1) and wall (PBM-WK1) mounting kits are available (not included).

Features and Benefits

- Finish black
- Frequency response rate 50-15,000 Hz +/- 3 dB
- Input sensitivity/impedance
Tel: 100mV/600 ohms, unbalanced
- Mic-1-2: 1.0mV/600 ohms, balanced
- Aux- 1: 200mV/50,000 ohms, unbalanced
- Music on hold 500 ohm line/1 Volt
- 8 ohm/1 watt
- Mute level aux 1/Mic 2 >= 40 dB
- Power supply 120 VAC, 50/60 Hz
- Rated output power 30 W RMS
- S/N ratio: Mic- 1-2: better than 55 dB
- Aux- 1: better than 70 dB
- Tel: better than 60 dB
- Speaker outputs 4 ohms, 8 ohms, 16 ohms, 25/70V line
- Tone control bass +/- 10 dB at 100 Hz
- Treble +/- 10 dB at 100 Hz
- Total harmonic distortion 1% or less at 1 kHz
- VOX level mic 1/Tel 0-40 dB adjustable



PBM-30

Commercial Horns

6 in. Weatherproof PA Speaker, 8 Ohm

Our 6 in. aluminum PA horn is weatherproof. It offers a frequency response of 250 to 15,000 Hz with a 10 watt RMS/15 watt maximum power rating. It features a 105 dB sensitivity and an 8 ohm impedance.

Features and Benefits

- Dimensions 6 in. (dia) x 6 in. (L)
- Frequency response 250-15,000 Hz
- Impedance 8 ohm
- Material aluminum
- Max power 15 watts
- Mounting bracket included
- RMS power 10 watts
- Sensitivity (1W/1M) 105 dB



SPC-10

Commercial Speakers

8 in. Speaker Grille Combo

Our 8 in. aluminum PA horn is weatherproof. It offers a frequency response of 250 to 15,000 Hz with a 10 watt RMS/15 watt maximum power rating. It features a 105 dB sensitivity and an 8 ohm impedance.

Features and Benefits

- Frequency response 50-15,000 Hz
- Grille diameter 12 in.
- Impedance 8 ohm
- Magnet 6 oz.
- Max Power 10 watts
- Packaged individually
- Speaker depth 3-1/4 in.
- Transformer dual 70v/25v, 5 watt
- Transformer taps 5, 2.5, 1, 0.5, 0.25 watt
- Woofer 8 in. dual cone



G86TG



Allen Tel Specialty Telephone Solutions

Emergency Communications

Outdoor and Emergency Telephones

ADA Elevator and Emergency Telephones

From custom engineering, design and manufacturing – Allen Tel offers a complete line of specialty telephones for apartments and condominiums.

Features and Benefits

- Standard colors: blue and red – custom colors available
- Offered with a single-number autodialer for emergency dialing and without the single-number autodialer for automatic ringdown applications
- Remote programmable
- Activated by a momentary pushbutton and disconnected by the pushbutton, or programmable to disconnect on silence or a time-out of 30 seconds to 99 minutes
- Braille labeling
- Two LED lamps to indicate “on” and “help on the way”
- ID tones to indicate location of the caller
- Auto-answer and operator monitoring
- Line powered
- Designed for indoor applications



GB555ADA



GB31454ADA

Description	Mfg. Part No.	Graybar ID
Mini speakerphone, no dial, color – blue	GB31454-ADA	92119629
Mini speakerphone equipped with single-number dialer, color – blue	GB31454SND-ADA	92119628
Elevator/emergency speakerphone, color – blue	GB555-ADA	93154267
Emergency telephone with single-number dialer, color – blue	GB555SND-ADA	93154266

Note: Add “47” to part number for red

Standard (Non-ADA) Elevator and Emergency Telephones

Features and Benefits

- Standard colors: blue and red – custom colors available
- Activated by a momentary pushbutton
- Line powered
- LED indicates an “off-hook” condition
- GB31454 is for auto ringdown or dedicated lines
- Designed for indoor applications



GB31560

Description	Mfg. Part No.	Graybar ID
Mini speakerphone less dial, equipped with ringer and remote programmable disconnect for ARD circuits, color – blue	GB31454	91005463
Mini speakerphone equipped with single-number remote programmable autodialer, ringer and a remote programmable disconnect, color – blue	GB31454SND	91005462
Same as GB31454 except equipped with DTMF tone dial, color - blue	GB31560	91005461

Note: Add “47” to part number for red

Elevator and Emergency Telephones

Features and Benefits

- Telephone sets are designed for flush mounting in elevators or halls
- Constructed of heavy-gauge sheet steel, finished in baked enamel
- Handset contains a powerful magnet which holds it securely in place
- Handsets are equipped with hearing-aid compatible (HAC) amplified receiver units with automatic volume reset
- All models are telephone line powered
- Contact Graybar or Allen Tel for options available on multi-dial features



GB252VD



GB522VS

Description	Mfg. Part No.	Graybar ID
Telephone set equipped with amplified receiver and a pushbutton (rotary) pulse dial, no outlet box, color – black	GB522VD	99510507
Telephone set less dial equipped with amplified receiver, no outlet box, color – black	GB522VN	99510508
Telephone set equipped with amplified receiver and pushbutton tone-dial, no outlet box, color – black	GB252VD	99510509
Telephone set equipped with amplified receiver, programmable single-number autodialer, not recommended when temperatures are below freezing, no outlet box, color – black	GB522VS	99510525

ADA Outdoor Telephones

Features and Benefits

- Speakerphone is constructed of high-impact polycarbonate material
- Braille labels and ID tones
- Two LED lamps to indicate “on” and “help on the way”
- Auto answer
- Can be used for ringdown circuits or single-number auto dialing
- Remote programmable
- Outdoor speakerphones are not recommended for temperatures below -5°F



GB32390SND

Description	Mfg. Part No.	Graybar ID
Less dial for automatic ringdown circuits	GB32390	94066348
Outdoor speakerphone remote programmable, single-number dialer	GB32390SND	95013838

These are only a few of Allen Tel's broad line of specialty telephones. A variety of options is available as well as customized engineering, design and manufacturing. Your Graybar representative can provide details, and our complete catalog is online at www.allentel.com.



When a Cell Phone Isn't the Answer, You Can Rely on Allen Tel Specialty Telephones

Outdoor and Emergency Telephones (Continued)

Emergency Communications

Outdoor and Emergency Telephones (Continued)

Vandal-Resistant Telephones

Allen Tel vandal-resistant telephones are routinely installed anywhere access is critical and subject to rough treatment.

Features and Benefits

- Single-line telephone is standard, other standard versions can be ordered with no dial, programmable single-number or multi-number dialers, noise-cancelling transmitters, etc.
- Brushed stainless-steel housing
- Metal tone-dial with chrome-plated pushbuttons
- 29 in. armored cord
- Amplified receiver
- Heavy steel rear-mounting plate
- Tamper-proof hardware



GB306V

Description	Mfg. Part No.	Graybar ID
Vandal-resistant telephone	GB306V	99508483
Vandal-resistant telephone with no dial	GB306VN	99508484
Vandal-resistant telephone equipped with programmable single-number dialer	GB306VS	99508523

Galaxy Telephones

Allen Tel Galaxy telephones are ideal for lobbies and other areas requiring professional appearance.

Features and Benefits

- Flush-mount telephone
- Color-matching handset, cord and trim frame
- Line powered
- Galaxy frontal dimensions are 10 in. wide by 12 in. high



Galaxy Telephone with Custom Polished Brass Faceplate

Description	Mfg. Part No.	Graybar ID
Single-line Galaxy telephone equipped with tone-dial, stainless steel trim mat and amplified receiver	GB275VXXF	Call
Galaxy speakerphone, includes trim frame, brushed aluminum mat, wall can and push button tone dial (custom aluminum mats available)	GB2765-XX-A	Call

Note: XX colors: 00-black; 13-beige; 14-grey; 15-white; handset cord and trim frame color

These are only a few of Allen Tel's broad line of specialty telephones. A variety of options is available as well as customized engineering, design and manufacturing. Your Graybar representative can provide details, and our complete catalog is online at www.allentel.com.

ADA Outdoor Telephones

Features and Benefits

- Housing is constructed of die-cast aluminum and electrostatically deposited enamel finish
- Braille labels and ID tones
- Two LED lamps to indicate "on" and "help on the way"
- All housings include gaskets and the logo "telephone," other logos available upon request
- Auto answer, remote programmable
- Can be used for ringdown circuits or single-number auto dialing
- Outdoor speakerphones are not recommended for temperatures below -5°F



GB97NADA02

Description	Tel Set Less Housing	Mfg. Part No.	Graybar ID
Less dial for automatic ringdown circuits	GB25900N-ADA-LH	GB97NADAXX	Call
Outdoor speakerphone, remote programmable, single number dialer	GB25900SNDADALH	GB97SNDADAXX	Call

Note: XX colors: 00-black; 02-red; 04-yellow; 14-grey, other colors available on special order

Pools and Other Outdoor Areas

Features and Benefits

- Housings are constructed of die-cast aluminum and electrostatically deposited enamel finish
- GB90 series telephones are equipped with either a push-latch or a push-key lock
- All housings include gaskets and the logo "telephone," other logos available upon request
- Complete telephone models offered include speakerphones and single-line units using pulse, tone or automatic dialing
- All handsets are equipped with hearing aid compatible (HAC) amplified receivers
- Options available for multi-dial features
- Outdoor speakerphones are not recommended for temperatures below -5°F



GB90VN00



GB94V02

Description	Tel Set Less Housing	Mfg. Part No.	Graybar ID
No dial, can be used with auto ringdown circuits	GB59VN-LH	GB90VNXX	Call
Single line, programmable single number dialer	GB59VS-LH	GB90VSXX	Call
Single line, pushbutton tone dial	GB259V-LH	GB92VXX	Call
Outdoor housing with GB2554V44 mini wall phone	N/A	GB94VXX	Call

Note: XX colors: 00-black; 02-red; 04-yellow; 14-grey, other colors available as special order



Allen Tel Connectivity and Installation Solutions

Connectivity, Installation Products

Jacks, Faceplates and Surface Boxes

Jack Modules for Voice, Data and Video

Features and Benefits

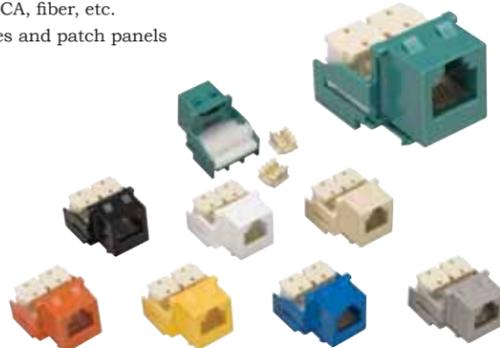
- Cat 3, Cat 5e and Cat 6 jack modules in a variety of colors
- 110 Termination, exceeds TIA/EIA 568-B Category standards
- Multimedia modules accommodate BNC, F-connectors, RCA, fiber, etc.
- Compatible with Allen Tel faceplates, surface-mount boxes and patch panels
- Compact and high-density versions available



AT32VD-09 S-Video Module



AT32F-09 F-Connector Module



Cat 3, Cat 5e and Cat 6 Modules

Faceplates, Surface Boxes and Wall Jacks

Features and Benefits

- Faceplates available in a variety of colors and port sizes – plastic or stainless steel
- Traditional or designer series faceplates
- Surface-mount boxes include adhesive mounting tape and tamper-resistant cover
- Wide array of wall telephone jacks, including specialty jacks to accommodate VoIP and other ancillary devices



AT33-6-15



AT631A



ATBK-VoIP



AT70 Series with ID Windows



AT30 Series

E-J Jacks – Surface and Flush

Features and Benefits

- Ideal for quick, multiple installations – economical and a genuine time-saver
- Jack can be terminated while remaining in protective bag
- No need to strip wires



AT316-4-52 Flush Mount

Outdoor Weather-Resistant Surface-Mount Jack

Features and Benefits

- High-impact grey plastic assembly consisting of a base and cover
- Base provides an integral screw-type connecting block and wire entry port weather-sealed by a molded neoprene grommet
- The cover with integral jack and spade-tipped leads is provided with a hinged, spring-loaded door and neoprene seal
- Includes mounting screws and double-sided tape



AT635WP

Description

6 Conductor, 6 position jack
8 Conductor, 8 position jack

Mfg. Part No.

AT625WP
AT635WP

Graybar ID

88007980
22125065

Category 5e and Category 6 Patch Panels and Patch Boxes

Features and Benefits

- A complete array of Cat 5e and Cat 6 patch panels (12 through 96 port) exceed TIA/EIA 568-B standards, wired universally for 568A or 568B
- Unloaded patch panels are ideal for multimedia applications (12 through 128 port)
- Wire management hardware available
- Cat 5e and Cat 6 patch boxes are ideal for small voice and data cross-connect applications (6 and 12 port)



AT66-12P Patch Box

Proven,
Reliable
Performance

Jacks, Faceplates and
Surface Boxes



Allen Tel Connectivity and Installation Solutions

Viking Security and Communication Solutions

Connectivity, Installation Products

Door Entry Products

Proven,
Reliable
Performance

Jacks, Faceplates and
Surface Boxes (Continued)

Jacks, Faceplates and Surface Boxes (Continued)

110 Systems – Category 5e and Category 6

Features and Benefits

- 110 Terminations exceed Cat 5e and Cat 6 TIA/EIA standards
- Rack or wall mount
- With or without legs
- Connector clips, labels and patch-cord assemblies available



GB110BA6K-48

Connectorized Cables

Allen Tel offers a complete line of plug-in connector cables. They are available in 25-pair with various plug, connector and length combinations.

Features and Benefits

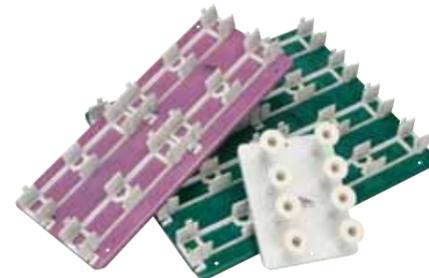
- Fully color-coded band marked with individual twisted pairs for ease of identification – the color band on each conductor matches body insulation color of matching conductor – standard telephone industry color-code is incorporated throughout
- Conductors are 24 AWG bare solid annealed copper wire
- PVC insulation over the conductors – semi heat-resistant and resistant to abrasion and cold flow



Backboards, Distribution Posts/Rings and Coax Cable Clips

Features and Benefits

- Backboards: color-coded, full or half modules, wood or metal – with or without GB89D mounting brackets or GB20 distribution posts
- Distribution posts include #8 round-head wood screw
- Distribution rings constructed of die-cast aluminum



Backboards and Posts



RG-6 and RG-59 Cable Clips



D-Rings

Vandal-Resistant Entry Phones

K-1700-3 Entry Phone

The K-1700-3 and K-1705-3 provide tough and attractive handsfree phones for apartment and residential door/gate entry or applications requiring a vandal-resistant speaker phone. When the “call” button is pressed, the phone returns dial tone. The keypad may then be used to dial any number. Both the K-1700-3 and the K-1705-3 feature microphone and speaker volume controls, selectable auto answer for monitoring, a yellow “in-use” LED and come complete with a standard flush-mount rough-in box. The K-1705-3 also has a built-in, high-resolution color video camera. An optional VE-6x7 weather-resistant surface-mount box is available for both units (as shown). For extreme outdoor environments or corrosive atmospheres, the K-1700-3 and K-1705-3 are available with enhanced weather protection (EWP). EWP products feature rubber gaskets and boots, closed cell foam gasketing, hand soldered silicon sealed connections, anti-corrosive gel filled butt connectors, as well as urethane encapsulated circuit boards with internally sealed, field-adjustable trim POTS and DIP switches.

Features and Benefits

- K-1705-3: built-in high resolution color video camera with wide viewing, tilt/swivel adjustments and wide operating temperature of -30°F to 150°F
- K-1705-3: audio and video transmission on one CAT5E cable
- Vandal-resistant features: 14-gauge louvered stainless steel faceplate with stainless steel speaker/mic screen, heavy-duty metal keypad and “call” button, impact- and scratch-resistant camera lens and hex drive mounting screws
- Weather-resistant features: mylar speaker, faceplate gasket, mic and speaker gasket, internally sealed (IP67) push button switch and keypad, sealed camera lens, potted camera circuit board, stainless steel phone and camera mounting hardware
- Optional enhanced weather protection (EWP) conforms to NEMA requirements
- Yellow “in use” LED
- Volume adjustments for microphone and speaker
- Advanced call progress detection: disconnects on busy signal, return to dial tone, CPC reorder tone, maximum call time out and selectable silence time out
- Zinc plated steel rough-in box with two 3/4 in. conduit knockouts
- Optional VE-6x7 surface-mount box available (as shown)
- Also available with Oil-Rubbed Bronze (dark brown) finish

Description	Mfg. Part No.	Graybar ID
Stainless steel handsfree phone with keypad	K-1700-3	97214916
EWP version of K-1700-3	K-1700-3-EWP	22016228
Handsfree video entry phone with keypad	K-1705-3	25100081
EWP version of K-1705-3	K-1705-3-EWP	25100082
Oil rubbed bronze handsfree phone with keypad	K-1700-3-BN	
EWP version of K-1700-3-BN	K-1700-3-BN-EWP	



K-1700-3



K-1705-3

Security and
Communication
Solutions

Vandal-Resistant
Entry Phones



Door Entry Products

Door Entry Systems

K-1200 Multi-Button Handsfree Entry Phone

The K-1200 entry phone is a two-way, handsfree telephone with 12 buttons for calling individual residences in an apartment building. The rugged stainless steel faceplate has a printed directory housed in a waterproof, scratch-resistant lens. Each button is beside the tenant's name in the directory so there are no confusing codes to deal with. Calling a particular tenant is as easy as pressing a single button. The K-1200 has a built-in speed dialer that can handle up to 12 primary phone numbers, each with 32 digits. If there is no answer at the first number, a second number can be called automatically. Once the tenant answers their phone, a single touch-tone command can activate the door strike relay. For "no phone line" applications, the K-1200 is compatible with the C-3000 no CO (phone line) controller. For outdoor applications, the K-1200 is available with enhanced weather protection. EWP products feature rubber gaskets and boots, closed cell foam gasketing, hand soldered silicon sealed connections, anti-corrosive gel filled butt connectors, as well as urethane encapsulated circuit boards with internally sealed trim POTS and DIP switches.



K-1205

Features and Benefits

- Operates on 12 to 24 volts AC/DC
- 12 speed dial buttons (22 digits each)
- 12 second number positions (22 digits each)
- One button operation (no Call button)
- Hang-up on CPC, busy, silence, time-out or dial tone return
- Touch tone restriction from microphone
- Integral relays for camera control and door strike
- Optional enhanced weather protection (EWP)
- 50 keyless entry codes
- Also available with a built-in high resolution color video camera, model K-1205 (shown)

Description	Mfg. Part No.	Graybar ID
Multi-button handsfree phone	K-1200	25128167
EWP version of K-1200	K-1200-EWP	25128168
Multi-button handsfree video entry phone	K-1205	
EWP version of K-1205	K-1205-EWP	

AES-2005 Accessible Video Entry System

The AES-2005 accessible entry system provides both audio and visual assistance for those with disabilities. The LCD display with large 1/2 in. tall characters is back-lit and will display a directory of tenants as well as directions and prompts. The AES-2005 has an integral high-resolution color video camera and a built-in voice recorder and announcer that can provide a supporting audio message. When the EZ™ access button is pressed, instructions on how to use the system are both displayed and announced. The built-in directory can support up to 525 tenant names and phone numbers and will dial a pre-programmed phone number upon selection of a tenant. Once two-way communication has been established, the tenant can activate a remote door strike by entering a touch-tone command. A second relay is also provided to operate an automatic door. The AES-2005 will support keyless entry at the door via its built-in keypad, or by adding Wiegand-type proximity card readers.

Features and Benefits

- Built-in high resolution color video camera with wide viewing angle, tilt/swivel adjustments and wide operating temperature of -15°F to 130°F
- 16 position, back-lit display with 1/2 in. tall characters
- Non-volatile digital voice announcer
- Factory configured to handle 75 apartments (expandable to 525 apartments)
- Non-volatile data memory for names, phone numbers and access codes
- TTY jack for connection to personal teletypewriter (TTY)
- Postal lock switch input
- Available in surface mount (AES-2005S) or flush mount (AES-2005F) configurations
- Keyless entry capability
- 5 Amp door strike/magnetic lock control relays
- Vandal resistant features:
 - 12 gauge stainless steel front panel
 - 1/4 in. thick abrasion resistant polycarbonate display lens
 - Metal keypad and push button switches
 - Front panel lock
 - Speaker protection screen
- Weather resistant features:
 - Conformal coated circuit board
 - Gasketing behind lens, speaker, keypad and perimeter of front panel
 - Sealed switches and keypad



AES-2005S

Description	Mfg. Part No.	Graybar ID
Accessible video entry system	AES-2005S	25161913
Accessible video entry system, flush mount	AES-2005F	

Security and Communication Solutions

Door Entry Systems



Digital Video Recording

Digital Video Recorders

DX4500/4600 Series

A fully featured and fully affordable entry-level digital video recorder (DVR), the DX4500/DX4600 series is the next generation in DVRs. Equipped with an embedded operating system, it offers camera capacity, features and functionality exceeding the other DVRs. The DX4500/DX4600 is designed for the entry-level market that requires eight or 16 camera inputs, greater internal hard drive storage capacity, fast frame rate recording and powerful playback, search and export capability. The DX4500/DX4600 not only replaces the traditional VCR and multiplexer combination, but it also offers the benefits derived from the latest in digital video processing.

DX8100 Series

Your security application might require more cameras or DVR software that provides even more sophisticated operation and control features. The DX8100 series DVRs bring to market a new and innovative hardware platform that is powered by unparalleled and unique high performance software. The DX8100 is expandable to meet your future security requirements.

Features and Benefits

DX4500/4600 Series

- Eight- or 16-channel digital video recorder
- MPEG-4 compression
- Up to 704 x 480 (NTSC), 704 x 576 (PAL) recording resolution
- Up to 480 images per second recording rate
- Up to 3 TB of hard drive storage
- Partition recording
- Channel resolution, quality and frame rate settings configurable per individual camera
- Picture-in-picture for multi-screen live and playback video
- Remote client is compatible with WindowsXP, Windows 2000 and Windows Vista
- Support for continuous, motion, alarm, and scheduled recording
- Local and remote PTZ control
- Third-party PTZ protocols
- Up to four audio inputs and one audio output
- Pre- and post-alarm recording
- Up to 16 alarm inputs and up to four relay outputs
- Main monitor for VGA or analog display, analog spot monitor
- Multilingual on-screen display
- USB, CD-RW or DVD±RW for video export
- Event notifications by e-mail, emergency agent or sounder
- Time/date, bookmark, event and pixel search

Features and Benefits

DX8100 Series

- Server dual display of as many as 72 cameras simultaneously
- Expanded ATM/POS support for up to 16 ATM/POS devices
- System health check monitoring
- WindowsXP embedded
- Optional MUX card output
- 2 built in audio channels
- Optional layer 2 multicasting for web browser access
- 16-channel expansion box option
- Internal storage capacity to 3 TB
- Up to 704 x 480 recording resolution (4CIF)
- Third-party dome support

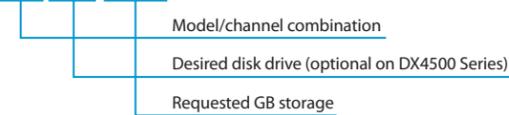
CREATING MODEL NUMBERS

DX4500 Series

DX4600 Series

DVR Model and Channels	Optional Disk Drive Available	Available GB	Graybar ID
DX4508	CD or DVD	250, 500, 750, 1000 or 1500	Call
DX4516	CD or DVD	250, 500, 750, 1000 or 1500	Call
DX4608	CD or DVD	250, 500, 750, 1000, 1500, 2000, 2250 or 3000	Call
DX4616	CD or DVD	250, 500, 750, 1000, 1500, 2000, 2250 or 3000	Call

DX4XXX XXX-XXXX



Example: DX4516CD-750 is 16 Channels, with optional disk drive and 750 GB of storage



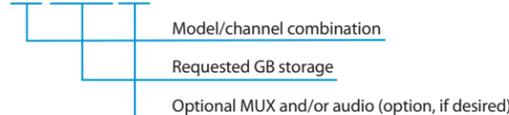
DX4500/4600 Series

CREATING MODEL NUMBERS

DX8100 Series

DVR Model and Channels	Available GB	Mux and Audio Options	Graybar ID
DX8108	250, 500, 750, 1000, 1500, 2000, 2250 or 3000	M, A or MA	Call
DX8116	250, 500, 750, 1000, 1500, 2000, 2250 or 3000	M, A or MA	Call
DX8124	250, 500, 750, 1000, 1500, 2000, 2250 or 3000	M, A or MA	Call
DX8132	250, 500, 750, 1000, 1500, 2000, 2250 or 3000	M, A or MA	Call

DX81XX-XXXX XX



Example: DX8124-250MA is 24 channels, 250 GB of storage with both MUX and audio options



DX8100 Series

The Choice for Professional Security

Digital Video Recorders



Pelco's Spectra High-Speed Domes

Camera Systems, Spectra IV and Spectra IV SE Dome

High-Performance and Premier Integrated Dome Systems

Spectra IV and Spectra IV SE were designed with ease of installation and ease of maintenance in mind. Each dome system consists of three components: a back box, a dome drive and a lower dome. These three system components are interchangeable between other Spectra IV or Spectra IV SE dome systems, making retrofitting and application adjustments simple. Also, dome drives and lower domes can be removed and replaced, reducing maintenance time.

Spectra IV Series Dome Systems

Spectra IV Series Dome Systems

High-Performance Integrated Dome System

Features and Benefits

- Two autofocus, high resolution integrated lowlight color camera/optics packages
- Zone blanking
- Window blanking
- Camera title overlay, 20 user-definable characters
- On-screen compass and tilt display
- Password protection
- Freeze frame during presets
- Built-in surge and limited lightning protection
- Integrated passive UTP circuit
- Internal scheduling clock

Dome Drive

- 128 Presets
- ±0.25° Preset accuracy
- On-screen compass, tilt and zoom display
- Rotating discreet liner with sealed fixed bubble
- Patterns: 1 on-screen, user-defined programmable pattern; includes pan, tilt, zoom and preset functions
- Variable scan speed: scan speed can be programmable between 1-40°/sec
- Programmable limit stops for auto/random/frame scan modes
- Auto-sensing protocol (Coaxitron, RS-422 P and D); accepts competitive control protocol with optional translator card
- "Auto flip" rotates dome 180° at bottom of tilt travel

Mechanical (Dome Drive Only)

Pan movement	360° Continuous pan rotation
Vertical tilt	Unobstructed +2° to -92°
Manual pan/tilt speeds	
Pan	0.1° to 80°/sec manual operation, 150°/sec turbo
Tilt	0.1° to 40°/sec manual operation
Preset speeds	
Pan	400°/sec
Tilt	200°/sec

For variable-speed operation an appropriate controller is required (with non-variable speed control, Spectra IV pan/tilt speed is 20°/sec).

Electrical

Input voltage	18 to 32 VAC; 24 VAC nominal 22 to 27 VDC; 24 VDC nominal
Input power	23 VA nominal (without heater); 73 VA nominal (with heater)
24 VAC	0.7 A nominal (without heater); 3 A nominal (with heater)
24 VDC	
Fuse	1.25 A



Spectra IV Series 16x Optical Dome Systems

Mount	Finish	Dome	16X LowLight Day/Night (NTSC)	Graybar ID	
Surface mount	White	Smoked	SD4TC-SMW-0	Call	
		Clear	SD4TC-SMW-1	Call	
		Chrome	SD4TC-SMW-2	Call	
	Black	Gold	Gold	SD4TC-SMW-3	Call
			Smoked	SD4TC-SMB-0	Call
			Clear	SD4TC-SMB-1	Call
		Chrome	Gold	SD4TC-SMB-2	Call
			Gold	SD4TC-SMB-3	Call
			Smoked	SD4TC-SMB-3	Call
In-ceiling	White	Smoked	SD4TC-F0	Call	
		Clear	SD4TC-F1	Call	
		Chrome	SD4TC-F2	Call	
	Black	Gold	SD4TC-F3	Call	
		Smoked	SD4TC-F-E0	Call	
		Clear	SD4TC-F-E1	Call	
Environmental in-ceiling	Black	Smoked	SD4TC-F-E0	Call	
		Clear	SD4TC-F-E1	Call	
		Chrome	SD4TC-F-E1	Call	
	Standard pendant	Light gray	Smoked	SD4TC-PG-0	Call
			Clear	SD4TC-PG-1	Call
			Chrome	SD4TC-PG-2	Call
Environmental pendant	Black	Gold	SD4TC-PG-3	Call	
		Smoked	SD4TC-PB-0	Call	
		Clear	SD4TC-PB-1	Call	
	Light gray	Chrome	SD4TC-PB-2	Call	
		Gold	SD4TC-PB-3	Call	
		Smoked	SD4TC-PG-E0	Call	
Clear	SD4TC-PG-E1	Call			

Spectra IV Series 18x Optical Dome Systems

Mount	Finish	Dome	18X LowLight Day/Night (NTSC)	Graybar ID	
Surface mount	White	Smoked	SD418-SMW-0	Call	
		Clear	SD418-SMW-1	Call	
		Chrome	SD418-SMW-2	Call	
	Black	Gold	Gold	SD418-SMW-3	Call
			Smoked	SD418-SMB-0	Call
			Clear	SD418-SMB-1	Call
		Chrome	Gold	SD418-SMB-2	Call
			Gold	SD418-SMB-3	Call
			Smoked	SD418-SMB-3	Call
In-ceiling	White	Smoked	SD418-F0	Call	
		Clear	SD418-F1	Call	
		Chrome	SD418-F2	Call	
	Black	Gold	SD418-F3	Call	
		Smoked	SD418-F-E0	Call	
		Clear	SD418-F-E1	Call	
Environmental in-ceiling	Black	Smoked	SD418-F-E0	Call	
		Clear	SD418-F-E1	Call	
		Chrome	SD418-F-E1	Call	
	Standard pendant	Light gray	Smoked	SD418-PG-0	Call
			Clear	SD418-PG-1	Call
			Chrome	SD418-PG-2	Call
Environmental pendant	Black	Gold	SD418-PG-3	Call	
		Smoked	SD418-PB-0	Call	
		Clear	SD418-PB-1	25111305	
	Light gray	Chrome	SD418-PB-2	Call	
		Gold	SD418-PB-3	Call	
		Smoked	SD418-PG-E0	Call	
Clear	SD418-PG-E1	25107607			



Pelco's Spectra High Speed Domes

Camera Systems, Spectra IV and Spectra IV SE Dome

Spectra IV SE Series Dome Systems

Spectra IV SE Series Dome Systems

Premier Integrated Dome System

Features and Benefits

- Four autofocus, high-resolution integrated camera/optics packages; multiple back box models
 - Day/night, 540 TVL, 128X wide dynamic range, motion detection and electronic image stabilization (SD435 series)
 - Day/night, 470 TVL, 80X wide dynamic range and motion detection (SD4CBW series)
 - Window blanking
 - Camera title overlay, 20 user-definable characters
 - Horizontal and zone blanking
 - On-screen compass and tilt display
 - Password protection
 - Freeze frame during presets
 - Built-in surge and limited lightning protection
 - Integrated passive UTP circuit
 - Internal scheduling clock
- Dome Drive**
- 250 Presets
 - ±0.1° Preset accuracy
 - On-screen compass, tilt and zoom display
 - Rotating discreet liner with sealed fixed bubble
 - Patterns: up to 8, on-screen, user-defined programmable patterns; includes pan, tilt, zoom and preset functions
 - Alarms can be programmed for three priority levels, to initiate a stored pattern or to go to an associated preset when received
 - Variable scan speed: scan speed can be programmable between 1-40°/sec
 - Programmable limit stops for auto/random/frame scan modes
 - Digital position and zoom control and feedback through D protocol
 - "Auto flip" rotates dome 180° at bottom of tilt travel



Mechanical (Dome Drive Only)

Pan movement	360° continuous pan rotation
Vertical tilt	Unobstructed +2° to -92°
Manual pan/tilt speeds	
Pan	0.1° to 80°/sec manual operation, 150°/sec turbo
Tilt	0.1° to 40°/sec manual operation
Preset speeds	
Pan	400°/sec
Tilt	200°/sec

For variable-speed operation an appropriate controller is required (with non-variable speed control, Spectra IV SE pan/tilt speed is 20°/sec).

Electrical

Input voltage	18 to 32 VAC; 24 VAC nominal 22 to 27 VDC; 24 VDC nominal
Input power	24 VAC 23 VA nominal (without heater); 73 VA nominal (with heater)
24 VDC	0.7 A nominal (without heater); 3 A nominal (with heater)
Fuse	1.25 A
Auxiliary outputs	2
Alarm inputs	7

Spectra IV SE Series 22X Optical Dome Systems

Mount	Finish	Dome	22X Exview LowLight Color (NTSC)	Graybar ID	
Surface mount	White	Smoked	SD4C22-SMW-0	Call	
		Clear	SD4C22-SMW-1	Call	
		Chrome	SD4C22-SMW-2	Call	
		Black	Gold	SD4C22-SMW-3	Call
			Smoked	SD4C22-SMB-0	Call
			Clear	SD4C22-SMB-1	Call
		Black	Chrome	SD4C22-SMB-2	Call
			Gold	SD4C22-SMB-3	Call
			Smoked	SD4C22-F0	Call
In-ceiling	White	Clear	SD4C22-F1	Call	
		Chrome	SD4C22-F2	Call	
		Gold	SD4C22-F3	Call	
Environmental in-ceiling	Black	Smoked	SD4C22-F-E0	Call	
		Clear	SD4C22-F-E1	Call	
Standard pendant	Light gray	Smoked	SD4C22-PG-0	Call	
		Clear	SD4C22-PG-1	Call	
		Chrome	SD4C22-PG-2	Call	
		Black	Gold	SD4C22-PG-3	Call
			Smoked	SD4C22-PB-0	Call
			Clear	SD4C22-PB-1	Call
		Black	Chrome	SD4C22-PB-2	Call
			Gold	SD4C22-PB-3	Call
			Smoked	SD4C22-PG-E0	Call
Environmental pendant	Light gray	Clear	SD4C22-PG-E1	Call	

Spectra IV SE Series 35X Optical Dome Systems

Mount	Finish	Dome	35X LowLight Day/Night (NTSC)	Graybar ID	
Surface mount	White	Smoked	SD435-SMW-0	Call	
		Clear	SD435-SMW-1	Call	
		Chrome	SD435-SMW-2	Call	
		Black	Gold	SD435-SMW-3	Call
			Smoked	SD435-SMB-0	Call
			Clear	SD435-SMB-1	Call
		Black	Chrome	SD435-SMB-2	Call
			Gold	SD435-SMB-3	Call
			Smoked	SD435-F0	Call
In-ceiling	White	Clear	SD435-F1	Call	
		Chrome	SD435-F2	Call	
		Gold	SD435-F3	Call	
Environmental in-ceiling	Black	Smoked	SD435-F-E0	Call	
		Clear	SD435-F-E1	Call	
Standard pendant	Light gray	Smoked	SD435-PG-0	Call	
		Clear	SD435-PG-1	Call	
		Chrome	SD435-PG-2	Call	
		Black	Gold	SD435-PG-3	Call
			Smoked	SD435-PB-0	Call
			Clear	SD435-PB-1	Call
		Black	Chrome	SD435-PB-2	Call
			Gold	SD435-PB-3	Call
			Smoked	SD435-PG-E0	Call
Environmental pendant	Light gray	Clear	SD435-PG-E1	25108815	

Spectra IV SE Series 23X Optical Dome Systems

Mount	Finish	Dome	23X LowLight Day/Night (NTSC)	Graybar ID	
Surface mount	White	Smoked	SD4CBW-SMW-0	Call	
		Clear	SD4CBW-SMW-1	25096577	
		Chrome	SD4CBW-SMW-2	Call	
		Black	Gold	SD4CBW-SMW-3	Call
			Smoked	SD4CBW-SMB-0	Call
			Clear	SD4CBW-SMB-1	Call
		Black	Chrome	SD4CBW-SMB-2	Call
			Gold	SD4CBW-SMB-3	Call
			Smoked	SD4CBW-F0	Call
In-ceiling	White	Clear	SD4CBW-F1	Call	
		Chrome	SD4CBW-F2	Call	
		Gold	SD4CBW-F3	Call	
Environmental in-ceiling	Black	Smoked	SD4CBW-F-E0	Call	
		Clear	SD4CBW-F-E1	Call	
Standard pendant	Light gray	Smoked	SD4CBW-PG-0	Call	
		Clear	SD4CBW-PG-1	25096559	
		Chrome	SD4CBW-PG-2	Call	
		Black	Gold	SD4CBW-PG-3	Call
			Smoked	SD4CBW-PB-0	25096555
			Clear	SD4CBW-PB-1	25096556
		Black	Chrome	SD4CBW-PB-2	25096557
			Gold	SD4CBW-PB-3	25096558
			Smoked	SD4CBW-PG-E0	Call
Environmental pendant	Light gray	Clear	SD4CBW-PG-E1	25096563	



The Crystal Clear Choice

LCD Public Viewing Systems

LCD Monitors

LCD Public Viewing Systems

Specifically designed for the security industry, Pelco offers four distinct series of LCD displays with a total of 13 models with displays ranging in size from 15 to 42 in. From models with VGA inputs to models that support both composite and VGA video, Pelco has what you're looking for. All models use a color, thin-film transfer (TFT) active matrix combined with a quick panel-response time to minimize ghosting in motion video. All models use long-life backlights to maintain the brightness level over time, eliminating the brightness degradation common in aging CRT monitors. Adjustments of standard monitor display parameters are made via user-friendly, on-screen menus and front-panel controls.



200 Series Flat Panel, TFT LCD Monitor
17- and 19-in. Monitors with VGA Input

The 200 series LCD monitors provide high-resolution display of VGA signals. These 17- and 19-in. monitors use a color, thin-film transfer (TFT) active matrix 1280 x 1024 LCD panel that automatically adapts to the appropriate input resolution.

Features and Benefits

- Space-saving, flat panel design
- Picture frame-style desktop stand
- VGA input
- Supports up to 1280 x 1024 SXGA resolution
- Maximum brightness of 300 cd/m2
- Maximum contrast ratio of 500:1
- Typical response time of 12 ms
- 100/240 VAC 60/50 Hz autoranging internal power supply
- Lower power consumption (<50 watts)
- Internal speakers
- Optional rack, wall and camera mounts

300 Series Flat Panel, TFT LCD Monitor
15-, 17- and 19-in. Monitors with Multimode Functionality

Pelco's 300 series LCD monitors designed specifically for the security industry provide high-resolution display of computer signals and/or composite video. These 15-, 17- and 19-in. monitors use a color, thin-film transfer (TFT) active matrix LCD panel that automatically adapts to the appropriate input resolution (up to 1280 x 1024).

Features and Benefits

- Space-saving, flat panel design
- Picture frame-style desktop stand
- Looping composite and S-video inputs
- VGA input
- Supports up to 1280 x 1024 SXGA resolution (PMCL319, PMCL317), 1024 x 768 resolution (PMCL315)
- Maximum brightness of 380 cd/m2 (PMCL319), 400 d/m2 (PMCL317), 350 cd/m2 (PMCL315)
- Maximum contrast ratio of 500:1
- Maximum response time of 12 ms (PMCL319, PMCL317), 16 ms (PMCL315)
- 100/240 VAC, 60/50 Hz autoranging internal power supply
- Low power consumption (<50 watts)
- Internal speakers
- Optional rack, wall and camera mounts

400 Series Flat Panel, TFT LCD Monitor
15-, 17- and 19-in. Multimode Monitors

Our 400 series high performance LCD monitors designed specifically for the security industry provide high-quality display of video or computer signals via multiple inputs. These 15-, 17- and 19-in. monitors use a color, thin-film transfer (TFT) active matrix LCD panel that automatically adapts to the appropriate input resolution.

Features and Benefits

- Space-saving, flat panel design
- Picture frame-style desktop stand
- Two looping composite inputs and one S-video input
- VGA input
- 3-D digital comb filter with de-interlacing for high-quality video
- Picture-in-picture (PIP)
- Digital DVI input
- USB hub
- Maximum brightness of 450 cd/m2 (PMCL419), 430 cd/m2 (PMCL417), 350 cd/m2 (PMCL415)
- Maximum contrast ratio of 600:1 (PMCL419), 500:1 (PMCL417, PMCL415)
- Maximum response time of 12 ms (PMCL419, PMCL417), 16 ms (PMCL415)
- 100/240 VAC, 60/50 Hz autoranging internal power supply

500 Series Flat Panel, LCD Monitor
23-, 26-, 32-, 37- and 42-in. Monitors with DVI Input

Pelco's 23-, 26-, 32-, 37- and 42-in. 500 series LCD monitors present bright images, intense colors and enhanced details in clear high-definition. Designed and tested for commercial video security use, the slim design of these 500 series monitors takes up minimal space and allows for easy installation. A large number of mounts are available to accommodate almost any space requirement.

Features and Benefits

- Wide-screen large-format displays
- Compatible with Pelco multi-viewers
- HD resolution
- Slim design
- High contrast ratio
- Brilliant colors
- PIP (picture-in-picture)
- Looping BNC output
- VGA and DVI interface
- Remote control included
- Desk stand included
- Optional speakers available
- Optional wall mounts available

Format	Display Technology	Type	Display Dimension	Mfg. Part No.	Graybar ID
Color	LCD	Computer-based, 200 series	17"	PMCL217	25058306
			19"	PMCL219	25058239
		Multi-mode, value-based 300 series	15"	PMCL315	25058321
			17"	PMCL317	25058280
			19"	PMCL319	25058338
			Multi-mode, performance-based 400 series	15"	PMCL415
		17"		PMCL417	25058324
		19"		PMCL419	25058218
		Large format, high definition (HD), multimode 500 series	23"	PMCL523A	25096522
			26"	PMCL526A	25096523
			32"	PMCL532A	Call
			37"	PMCL537A	25096526
42"	PMCL542A		25096528		



Pelco Camclosure IS Integrated Camera Systems

Camera Systems

Camclosure IS Integrated Camera Systems

Pelco is proud to introduce Camclosure IS, a fully integrated enclosure, camera and lens that is exclusively engineered and manufactured at Pelco. Camclosure IS series features new technology, new flexibility, increased resolution, increased focal lengths and new camera options.

Our premier camera in this line is our day/night wide dynamic range, which offers up to 540TVL high resolution and 120DB of dynamic range. In addition to enhanced low light sensitivity down to 0.02 lux. Engineered to produce clear images when installed in any lighting condition.

The entire Camclosure IS mini dome series offers additional flexibility. A built-in UTP balun comes standard with a video service connector accessible from the front to focus and view video.

With five enclosure designs in all – with five different camera optics packages to accommodate various lighting conditions – Camclosure IS the clear choice.

IS90 Product Features

Features and Benefits

- Fully-integrated indoor enclosure with camera and lens
- Single model for surface mount and recessed ceiling applications with 4S adapter plate
- Four camera options:
 - Day/night wide dynamic range (WDR): pixel-based imager for accurate color representation, progressive scan
 - Day/night high resolution: 540 TVL
 - Wide dynamic range (WDR): pixel-based imager for accurate color representation, progressive scan
 - High resolution color: 540 TVL
- Varifocal lens options: 3 mm to 9.5 mm, 9 mm to 22 mm
- Fixed lens options: 3 mm, 3.6 mm, 6 mm, 8 mm, and 12 mm
- Includes both composite and unshielded twisted pair (UTP) outputs
- All models include one smoked bubble, one clear bubble and one liner
- Shipped completely assembled, easy to install
- 12 VDC or 24 VAC operation, autosensing
- Manual, three-axis (pan/tilt/rotation) positioning allows adjustment for optimum camera rotation and placement
- Housing available in white or black
- Service connector for video output



IS90

IS110/111 Product Features

Features and Benefits

- Fully-integrated enclosure with camera and lens
- Rugged, high-impact, vandal-resistant, puncture-proof domes, tamper-resistant hardware
- Four camera options:
 - Day/night wide dynamic range (WDR): pixel-based imager for accurate color representation, progressive scan
 - Day/night high resolution: 540 TVL
 - Wide dynamic range (WDR): pixel-based imager for accurate color representation, progressive scan
 - High resolution color: 540 TVL
- Varifocal lens options: 3 mm to 9.5 mm, 9 mm to 22 mm
- Fixed lens options: 3 mm, 3.6 mm, 6 mm, 8 mm, 12 mm
- Includes both composite and unshielded twisted pair (UTP) output
- 12 VDC or 24 VAC operation, autosensing
- Available with smoked or clear bubble
- Service connector for video output



IS110

IS150 Product Features

Features and Benefits

- Fully-integrated enclosure with camera and lens
- Rugged, high-impact, vandal-resistant, puncture-proof domes, tamper-resistant hardware
- Four camera options:
 - Day/night wide dynamic range (WDR): pixel-based imager for accurate color representation, progressive scan
 - Day/night high resolution: 540 TVL
 - Wide dynamic range (WDR): pixel-based imager for accurate color representation, progressive scan
 - High resolution color: 540 TVL
- Varifocal lens options: 3 mm to 9.5 mm, 9 mm to 22 mm
- Fixed lens options: 3 mm, 3.6 mm, 6 mm, 8 mm, 12 mm
- Includes both composite and unshielded twisted pair (UTP) outputs
- Easy to install; camera module easy to adjust and remove
- Meets NEMA type 4X and IP66 standards
- All cameras feature digital signal processing
- 12 VDC or 24 VAC operation, autosensing
- Available with smoked or clear bubble
- Includes service connector for video output



IS150

Step 1 - Select base model

IS XXX-XX XXX

	Housing/Bubble Type
90	Indoor white
90B	Indoor black
110	Rugged surface, smoked
111	Rugged surface, clear
150	Rugged in-ceiling, smoked
151	Rugged in-ceiling, clear

Step 2 - Select camera and lens

IS XXX-XX XXX

	Camera Type
DW	Color day/night wide dynamic range
DN	Color day/night high resolution
CW	Color wide dynamic range
CH	Color high resolution
Lens Type	
V9	Varifocal, 3 mm to 9.5 mm, auto iris (all cameras)
V22	Varifocal, 9 mm to 22 mm, auto iris (all cameras)
3	Fixed, 3 mm (CH cameras only)
3.6	Fixed, 3.6 mm (CH cameras only)
6	Fixed, 6 mm (CH cameras only)
8	Fixed, 8 mm (CH cameras only)
12	Fixed, 12 mm (CH cameras only)

Example: IS111-DNV9 is the model number for a color day/night high resolution camera with a clear bubble and a 3 mm to 9.5 mm varifocal lens.

Pelco's
Camclosure IS the
Clear Choice.

Camclosure IS Integrated
Camera Systems



GE Security Video Solutions

Digital Video Recorders

SymSafe Pro Hybrid Digital Video Recorder

Hybrid Digital Video Recorder

GE's SymSafe Pro offers "hybrid" recording that works with any analog camera and also GE's IP network products. This unique platform provides a migration path to IP recording and allows continued use of existing analog equipment. SymSafe Pro is available in four, eight and 16 analog channels plus it includes two IP video streams. The SymSafe Pro model records up to 480 fps at 2-CIF and 240 fps at D1 resolution. It has six quality settings, two audio channels, e-mail notification and also permits up to 10 users and 30 macros.

Features and Benefits

- Hybrid DVR with two IP streams and two audio inputs
- Real-time MPEG-4 recording up to 18 channels at 2-CIF
- Unique "light bar" alarm indicator
- Integrated solution: SymSuite software
- Archive via USB 2.0 port
- Continuous, motion detection, alarm and scheduled recording modes
- Network bandwidth throttling
- PTZ camera control
- Cooling Tunnel design extends HDD life
- Video-specific hard drives improved reliability
- CD/DVD-RW burner
- VGA and composite video output
- IR remote included

Pkg.	Color	Dimensions	Channel	Hard Drive Size	Mfg. Part No.	Graybar ID
1 Ea.	Black	3.5" H x 16" W x 15.5" D	4 + 2 IP	320 GB	SymSafePro4+2-320	25127650
1 Ea.	Black	3.5" H x 16" W x 15.5" D	4 + 2 IP	640 GB	SymSafePro4+2-640	25127651
1 Ea.	Black	3.5" H x 16" W x 15.5" D	4 + 2 IP	1 TB	SymSafePro4+2-1T	25127652
1 Ea.	Black	3.5" H x 16" W x 15.5" D	8 + 2 IP	320 GB	SymSafePro8+2-320	25127653
1 Ea.	Black	3.5" H x 16" W x 15.5" D	8 + 2 IP	640 GB	SymSafePro8+2-640	25127654
1 Ea.	Black	3.5" H x 16" W x 15.5" D	8 + 2 IP	1 TB	SymSafePro8+2-1T	25127655
1 Ea.	Black	3.5" H x 16" W x 15.5" D	8 + 2 IP	1.5 TB	SymSafePro8+2-1.5T	25127656
1 Ea.	Black	3.5" H x 16" W x 15.5" D	16 + 2 IP	320 GB	SymSafePro16+2-320	25127657
1 Ea.	Black	3.5" H x 16" W x 15.5" D	16 + 2 IP	640 GB	SymSafePro16+2-640	25127658
1 Ea.	Black	3.5" H x 16" W x 15.5" D	16 + 2 IP	1 TB	SymSafePro16+2-1T	25127659
1 Ea.	Black	3.5" H x 16" W x 15.5" D	16 + 2 IP	1.5 TB	SymSafePro16+2-1.5T	25127660
1 Pr.	Black	(2 Rack Units)	—	—	SymSafe-RK	25127661



Digia II Digital Video Recorder

MPEG-4 Digital Video Recorder

Digia II, a cost-effective compact four, nine or 16-channel digital video recorder, brings the benefits of digital security recording to small commercial applications. A user-friendly interface and more than one month of hard-disk recording make the Digia II easy to use, install and maintain.

Simultaneously view, record and play back images with the Digia II. Easily archive video evidence to an external device connected through the USB 2.0 port. Includes remote software for live viewing or playback of video over LAN, WAN or the Internet.

Features and Benefits

- Entry-level MPEG-4 digital solution
- Available in four, nine or 16-channel
- 160, 320 or 640 GB hard drive sizes
- Remote configuration via web browser
- USB 2.0 port for flash drive archiving
- Full duplex audio
- Motion detection
- Watermarking
- AVI file export
- Simple recording schedule
- User and admin log-in
- Real-time live display
- E-mail notification on alarm
- Alarm I/O terminal block
- Multiple language support
- Optional rack mount kit

Pkg.	Color	Dimension	Channel	Hard Drive Size	Mfg. Part No.	Graybar ID
1 Ea.	Dark grey	3.18" H x 14.65" W x 13.31" D	4	160 GB	Digia204-160	25093077
1 Ea.	Dark grey	3.18" H x 14.65" W x 13.31" D	4	320 GB	Digia204-320	25093078
1 Ea.	Dark grey	3.18" H x 14.65" W x 13.31" D	9	160 GB	Digia209-160	25093079
1 Ea.	Dark grey	3.18" H x 14.65" W x 13.31" D	9	320 GB	Digia209-320	25093080
1 Ea.	Dark grey	3.18" H x 14.65" W x 13.31" D	16	160 GB	Digia216-160	25093081
1 Ea.	Dark grey	3.18" H x 14.65" W x 13.31" D	16	320 GB	Digia216-320	25093082
1 Ea.	Dark grey	3.18" H x 14.65" W x 13.31" D	16	640 GB	Digia216-640	25093083
1 Pr.	Dark grey	(2 rack units)	—	—	Digia2RK	25095655



Advanced
Technology in
Video Surveillance

SymSafe Pro Hybrid
Digital Video Recorder

Digia II Digital
Video Recorder



GE Security Video Solutions

Ingersoll Rand Security Technologies

CCTV Surveillance Cameras

Physical Security

CCTV Discreet Dome Cameras

MiniView Dome Camera

For indoor applications where discreet security is required, the MiniView dome camera is an excellent solution. Measuring just 2 in. across, the MiniView delivers a high-resolution color image with backlight compensation and automatic white balance. The MiniView dome is easy to install using the included wall mount bracket. A dome shroud conceals the camera's position inside the dome. The MiniView dome camera delivers 480 resolution and has a 1.0 lux rating. Included is a lens pack consisting of 2.5 mm, 4 mm and 6 mm lenses.

Features and Benefits

- 2 in. discreet dome
- 480 line resolution
- 1.0 Lux @ f1.2
- 2.5 mm, 4 mm, 6 mm lens pack
- Wall mount bracket included
- Shroud conceals camera position
- Backlight compensation
- Automatic white balance



Pkg.	Color	Dimensions	Op.Temp.	Input Voltage	Power Consumption	Mfg. Part No.	Graybar ID
1 Ea.	Light grey	2.0" H x 2.25" W x 2.75" D	14-122°F	12VDC/24VAC	1.38W/1.68W	MD2-1500	25069549

CamPlus IP Rugged Dome Camera

IP Video Camera / Fixed Dome

Replace traditional analog dome cameras with the CamPlus IP rugged dome. The latest camera sensors and data signal processing technology combine with sharp MPEG-4 compression to send images quickly and easily over a network. The robust dome housing can be installed indoors or outdoors and is also available in a day/night version.

Features and Benefits

- IP rugged dome camera
- Optional day/night versions
- 520 high resolution color
- .5 lux @ f1.2 in color mode
- .1 lux @ f1.2 in B/W mode
- 3.3 mm-12 mm varifocal A.I. lens
- MPEG-4 video compression
- Dual streaming capabilities
- Data rate: up to 3 Mbps
- Audio line input
- Motion detection
- One ea. alarm input/output
- LAN/WAN Ethernet port
- Protocols: TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP
- Uses standard web browser software
- Includes 16-channel client software
- 12 VDC/PoE or 12 VDC/24 VAC



Pkg.	Color	Dimensions	Op.Temp.	Input Voltage	Mfg. Part No.	Graybar ID
1 Ea.	Light grey	2.05" H x 5.55" W x 2.76" D	-22 to 122°F	24 VAC	GEC-IPDRH-24VA	25172962
1 Ea.	Light grey	2.05" H x 5.55" W x 2.76" D	-22 to 122°F	24 VAC	GEC-IPDRH-DN-24VA	25172963
1 Ea.	Light grey	2.05" H x 5.55" W x 2.76" D	-22 to 122°F	12 VDC	GEC-IPDRH-POE	25172964
1 Ea.	Light grey	2.05" H x 5.55" W x 2.76" D	-22 to 122°F	12 VDC	GEC-IPDRH-DN-POE	25110874

Schlage Keypad Lock

Battery-Powered Keypad Lock

Who else but Schlage could provide unsurpassed protection that's tailored to today's modern lifestyle? No keys to hide, lose, carry or forget! We've taken the quality, control and advanced technology of our commercial keypad locks and redesigned them for residential use. Schlage brings an entirely new level of security, safety and protection to the residential environment, providing users with the convenience of keyless access that's simple and affordable.

Features and Benefits

- Fits standard residential preps
- No additional holes
- Equipped with 9-volt battery
- Three-year average battery life
- 19 user code capacity
- 10,000 code combinations

Description	Mfg. Part No.	Graybar ID
Schlage residential electronic keypad lock, ultima bright brass finish, the unit is set to a lock or unlock mode by entering in a code	FE595PLY x FLA 505	Call
Schlage residential electronic keypad lock, satin nickel finish, the unit automatically relocks after 5 seconds	FE575PLY x FLA 619	Call



FE595PLY x FLA 505



FE575PLY x FLA 619

Convenient,
Secure and Stylish
Battery-Powered
Keypad Locks

Schlage Keypad Lock



Communication Solutions for Crisis Situations

Altronix® CCTV Power

Installs Quickly and Easily Over Existing CAT 5/6 Cable or Fiber

Low-Voltage Power

Encompass™ Voice Notification System

Today's World is Full of the Unexpected – Be Prepared to Handle a Crisis!

Crisis situations require communicating with hundreds – even thousands of people – quickly and efficiently! Valcom Encompass™ emergency voice notification system is the only way to give real-time, take-action instructions to people and the ability to provide information and guidance that can significantly change the outcome of a situation. Being able to accurately disseminate emergency information before, during and after a crisis is critical in protecting life, mitigating casualties and minimizing chaos. Crisis situations may include fire, intruder or severe weather emergencies. Valcom Encompass can instantly deliver critical information to all buildings, groups of buildings, all floors or indoor and outdoor areas.



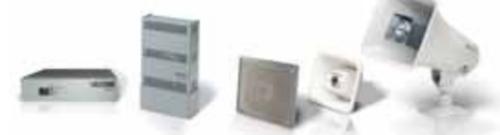
Door Entry Intercoms

Description	Mfg. Part No.	Graybar ID
Four door unlocking control	V-2904	90094068

Speakers and Horns (Talkback)

Description	Mfg. Part No.	Graybar ID
8" Ceiling speaker	V-1060A	88276199
FlexHorn™	V-1090	Call
Optional vandal-resistant enclosure w/faceplate for FlexHorn	V-9805	96000256
Doorplate speaker, flush mount, brass	V-1072A-BRASS	96048509
Doorplate speaker, flush mount, st. steel	V-1072A-ST	96002148
ADA compliant strobe	V-5580041	99550823

Note: Graybar ID "Call" is due to color choice



IP Series Page Controls

Description	Mfg. Part No.	Graybar ID
1 Audio port networked	VIP-801	22126950
6 Amp -24Vdc switching power supply	VP-6124	96000258

SIP Speakers and Horns (One-Way)

Description	Mfg. Part No.	Graybar ID
IP 5-watt horn	VIP-130-L	Call
IP FlexHorn™	VIP-480-L	25101217
Optional vandal-resistant enclosure w/faceplate for IP FlexHorn	V-9805	96000256

Note: Graybar ID "Call" is due to color choice

Features

- Instantaneous
- Reliable
- Flexible
- Quick and easy deployment

Benefits

- Utilizes existing CAT 5/6 or fiber
- Self-amplified speakers eliminate the requirement for large power amplifiers and heavy gauge wire
- No single point of failure



1U AC Rack Mount Power

Altronix offers power supplies that allow system designers and installers to distribute power output to video cameras and various accessory devices in sleek 1U rack mount configurations. In addition to their space-saving design characteristics, the multiple output configurations allow for a wide range of systems possibilities.

Sixteen different rack mount models are available; with 24VAC/28VAC and OFF position switches with power ratings up to 17 amps total. They are available in models with eight, 16 or 24 fused or PTC protected outputs with or without isolation.

All of Altronix's products are backed by a lifetime warranty.

Features and Benefits

- Illuminated master power switch
- Individual power LED indicators
- Removable terminal blocks with locking screw flanges
- IEC-320 detachable 3-wire grounded line cord
- 1U rack mount chassis for use in standard EIA 19 in. rack

AC Rack Mount

Description	Mfg. Part No.	Graybar ID
24VAC and/or 28VAC @ 5A, 8 fused outputs	VertiLine8	xxxxxxx
24VAC and/or 28VAC @ 10A, 8 fused outputs	VertiLine83	xxxxxxx
24VAC and/or 28VAC @ 8A, 8 fused isolated outputs	VertiLine8i	xxxxxxx
24VAC and/or 28VAC @ 10A, 16 fused outputs	VertiLine16	xxxxxxx
24VAC and/or 28VAC @ 17A, 16 fused outputs	VertiLine166	xxxxxxx
24VAC and/or 28VAC @ 16A, 16 fused isolated outputs	VertiLine16i	xxxxxxx
24VAC and/or 28VAC @ 10A, 24 fused outputs	VertiLine24	xxxxxxx
24VAC and/or 28VAC @ 17A, 24 fused outputs	VertiLine246	xxxxxxx
24VAC and/or 28VAC @ 5A, 8 PTC outputs	VertiLine8D	xxxxxxx
24VAC and/or 28VAC @ 10A, 8 PTC outputs	VertiLine83D	xxxxxxx
24VAC and/or 28VAC @ 8A, 8 PTC isolated outputs	VertiLine8Di	xxxxxxx
24VAC and/or 28VAC @ 10A, 16 PTC outputs	VertiLine16D	xxxxxxx
24VAC and/or 28VAC @ 17A, 16 PTC outputs	VertiLine166D	xxxxxxx
24VAC and/or 28VAC @ 16A, 16 PTC isolated outputs	VertiLine16Di	xxxxxxx
24VAC and/or 28VAC @ 10A, 24 PTC outputs	VertiLine24D	xxxxxxx
24VAC and/or 28VAC @ 17A, 24 PTC outputs	VertiLine246D	xxxxxxx



VertiLine24

Security and Notification Solutions

1U AC Rack Mount Power

Voice Notification System When Every Second Counts!™

Encompass™ Voice Notification System



Cooper Notification Solutions

Providing
Notification Solutions
for a Wide Range of
Applications

Wheelock SNAP Strobes,
Horns and Horn Strobes

Wheelock Weatherproof
Strobes, Horn Strobes
and Back Boxes

Wheelock Strobes, Horns and Horn Strobes

Wheelock SNAP Strobes, Horns and Horn Strobes

Designed for life safety, performance and reliability, Cooper Notification manufactures an extensive line of notification appliances and devices.

The Series Z notification appliances feature an easy snap-on base that is designed to simplify the installation and testing of horns, strobes and horn/strobes. The separate Series Z snap-on base can be pre-wired so circuit wiring can be fully tested before the appliance is installed and before the walls are covered. Once all surrounding work is complete, the appliance can be simply installed by snapping it on the base.

The dual-listed weatherproof strobes and horn strobes are listed for outdoor applications under UL 1638, as well as under UL 1971, the Standard for Safety Signaling Devices for Hearing Impaired. With an extended temperature range of -31°F to 150°F (-40°C to 66°C), weatherproof appliances meet or exceed UL outdoor test requirements for rain, humidity and corrosion resistance while providing multiple strobe intensity options, including the highest strobe ratings available for area coverage per NFPA 72 strobe spacing tables (up to 185 candela for wall mounting and 177 candela for ceiling mounting).

Description	Color	Strobe Candela	Mfg. Part No.	Graybar ID
Horn strobe, wall	Red	15/30/75/110	ZNS-MCW-FR	25108960
Horn strobe, wall	Red	135/185	ZNS-MCWH-FR	25108962
Horn, wall	Red	—	ZNH-R	25108968
Horn strobe, ceiling	White	15/30/75/95	ZNS-MCC-FW	25108965
Horn strobe ceiling	White	115/177	ZNS-MCCH-FW	25108967
Strobe, wall	Red	15/30/75/110	ZRS-MCW-FR	25108970
Strobe, wall	Red	135/185	ZRS-MCWH-FR	25108972
Strobe, ceiling	White	15/30/75/95	ZRS-MCC-FW	25108975
Strobe, ceiling	White	115/177	ZRS-MCCH-FW	25108977



ZNS-MCW-FR

Wheelock Weatherproof Strobes, Horn Strobes and Back Boxes

Weatherproof Strobes Horns Strobes and Back boxes

Features and Benefits

- Approvals include: UL Standard 1971, UL Standard 464, New York City (MEA), California State Fire Marshal (CSFM), Factory Mutual (FM) and Chicago (BFP)
- ADA/NFPA/UFC/ANSI and OSHA 29, Part 1910, 165 compliant
- Wall mount models feature field-selectable candela settings of 15/30/75/110cd and 135/185cd
- Ceiling mount models feature field-selectable candela settings of 15/30/75/95cd and 115/177cd
- Strobes can be synchronized using the Wheelock sync modules or power supplies with built-in sync protocol
- Weatherproof appliances have an extended temperature range of -40°F to 150°F (-40°C to 66°C)

Description	Color	Mfg. Part No.	Graybar ID
Strobe, wall	Red	RSSWP-2475W-FR	99859189
Strobe, ceiling	White	RSSWP-2475SC-FW	25163106
High candela strobe, wall	Red	RSSWP-24MCWH-FR	25163112
High candela strobe, ceiling	White	RSSWP-24MCCH-FW	25163111
Horn strobe, wall	Red	ASWP-2475W-FR	99576340
Horn strobe, ceiling	Red	ASWP-2475C-FR	25164650
High candela horn strobe, wall	Red	ASWP-24MCWH-FR	25164680
High candela horn strobe, ceiling	White	ASWP-24MCCH-FW	25164681
Back box for RSSWP	Red or white	WPSBB-R	25072025
Back box for ASWP	Red or white	WPBB-R	99576341



ASWP-2475W-FR



RSSWP-2475W-FR



Providing Notification Solutions for a Wide Range of Applications

Wheelock Speakers and Speaker Strobes

SAFEPATH Voice Evacuation System and Accessories

POWERPATH Power Supplies

Emergency Notification

Wheelock Speakers and Speaker Strobes

Series E and ET

Series E and ET speakers and speaker strobes provide high audio output with clear audibility and are designed to meet the critical needs of the life safety industry for effective emergency voice communications, tone signaling and visible signaling.

The speakers and speaker strobes are designed for high-efficiency sound output, with dual voltage (25/70 VRMS) capability and field-selectable taps from 1/8 to 8 watts (depending on model). The low-profile design incorporates a speaker mounting plate for faster and easier installation. Each model has a built-in level adjustment feature and an aesthetic two screw grille cover.

The speakers and speaker strobes are available in red, white or nickel plated.

Features and Benefits

- Approvals include: UL Standard 1971, UL Standard 464, New York City (MEA), California State Fire Marshal (CSFM), Factory Mutual (FM) and Chicago (BFP)
- ADA/NFPA/UFC/ANSI and OSHA 29, Part 1910, 165 compliant
- Wall mount models feature field-selectable candela settings of 15/30/75/110cd and 135/185cd
- Ceiling mount models feature field-selectable candela settings of 15/30/75/95cd and 115/177cd
- Strobes can be synchronized using the Wheelock sync modules or power supplies with built-in sync protocol
- High-efficiency design for maximum output at minimum wattage across a frequency range of 400 to 4,000 HZ
- Fast installation with IN/OUT screw terminals using #12 to #18 AWG wires

Description	Color	Strobe Candela	Mfg. Part No.	Graybar ID
Speaker strobe, wall	Red	15/30/75/110	E70-24MCW-FR	99859194
Speaker strobe, wall	Red	135/185	E70-24MCWH-FR	25072023
Speaker strobe, ceiling	White	15/30/75/95	E90-24MCC-FW	25164388
Speaker strobe, ceiling	White	115/177	E90-24MCCH-FW	25164695
Speaker, wall or ceiling	Red	—	E70-R	96066234
Speaker, wall or ceiling	White	—	E70-W	25164593
Speaker, wall or ceiling	Red	—	E90-R	99868236
Speaker, wall or ceiling	White	—	E90-W	99859195
Speaker strobe, wall	Red	15/30/75/110	ET70-24MCW-FR	99859195
Speaker strobe, wall	Red	135/185	ET70-24MCWH-FR	25164725
Speaker strobe, ceiling	White	15/30/75/95	ET90-24MCC-FW	25164709
Speaker strobe, ceiling	White	115/177	ET90-24MCCH-FW	25164727
Speaker, wall or ceiling	Red	—	ET70-R	99420294
Speaker, wall or ceiling	White	—	ET70-W	25164610
Speaker, wall or ceiling	Red	—	ET90-R	25164611
Speaker, wall or ceiling	White	—	ET90-W	25164612



E70-24MCW-FR



ET90-24MCC-FW



E90

SAFEPATH Voice Evacuation System and Accessories

SAFEPATH is a multi-function supervised paging, messaging, background music delivery and emergency voice evacuation system with 24 VDC battery backup. This single-channel system is capable of delivering 40 watts of supervised high-fidelity audio power and 2 amps of supervised 24 VDC synchronized strobe power. It comes standard with an on-board digital voice messaging system with eight standard messages, a hand-held microphone, power supply/battery charger and numerous additional features. The SAFEPATH system is expandable to 5,280 watts utilizing the SPB-80/4 (80 watts and 4 amps of strobe power), the SPB-160 (160 watts) or SPB-320 (320 watts) supervised audio power boosters. All models available in 115 VAC or 220 VAC.



SP405

Application

- Multi-use applications – the system can function as an evacuation system, an emergency messaging system, a paging system, an employee notification system and a background music system per NFPA 72 (2002), section 6.8.4 Combination Systems
- Fire code applications – the system is listed under UL Standard 864, 9th edition delivering supervised audio and voice messaging with strobes and notification appliance circuits (NAC) for visual alerting
- Economic OSHA applications – the system is OSHA 1910.165 compliant; this means that it does not require reliability inspections every two months, or the required spare parts inventory
- Wide-ranging applications – from small to large facilities
- Can connect to pagers for private alerting of emergency/trouble conditions

The Wheelock POWERPATH PS-6 and PS-8 power supplies provide you the opportunity to expand. From installation to maintenance, the incorporated advanced features allow you to save equipment and labor costs.

Description	Mfg. Part No.	Graybar ID
Multi-function supervised paging, messaging, background music and emergency voice evacuation system with 24 VDC battery backup circuitry, single-channel system with 40 watts of supervised audio power and 2 amps of supervised 24 VDC synchronized strobe power and 8 standard messages (batteries not included, 2 required)	SP405	25163104
Telephone zone controller	SP4-TZC	25164854
Addressable paging splitter	SP4Z-APS	25164845
Supervised volume control	SP-SVC	25164771
160 Watt supervised audio power booster (2 80-watt circuits)	SPB-160	25164398

POWERPATH Power Supplies

Features and Benefits

POWERPATH

- Distinguishable ground fault LEDs – pinpoint problem circuits without having to remove all of the field wiring from the panel
- Larger enclosure (PS-8) for internal mounting of control modules – enables technicians to easily identify and troubleshoot all wiring (no loss sight of wiring in the conduit)
- True input to output mapping – enables split mode operation, allowing independent operation of the two inputs to any of the outputs
- PS-EXP expansion board – increases the available NAC circuit outputs
- PS-EXP expansion board – increase NAC outputs
- Larger enclosure (PS-8) – more room for internal mounting of control modules eliminating the need to purchase four square boxes, conduit and fittings
- Input follower mode – accommodates systems that employ coded signals, march time and the California school system temporal pattern

- Integrated synchronization bus – allows for cascading of multiple power supplies to accommodate very large installations

SAFEPATH

- Approvals: UL Standard 864, 9th edition, UL Standard 1711, California State Fire Marshal (CSFM), New York City (MEA), FCC Part 15
- OSHA 1910.165 and ADA compliant
- Capable of broadcasting from a supplied BGM source
- Easily interfaces with most existing phone system page port, CO port and line level signals
- Supervised NAC speaker and strobe circuits

Description	Mfg. Part No.	Graybar ID
6-Amp power supply	PS-6	97203284
8-Amp power supply	PS-8	Call



Cooper Notification Solutions

Emergency Notifications

Wheelock Telephone and Paging Devices

Telephone Alerts and Paging Horns

The universal telephone alerts and chimes are loud, attention-getting electronic ringers designed for use in noisy locations or wide-area coverage.

The paging horns provide clear, audible output for voice paging, background music and tone alerting.

Features and Benefits

- Connects with standard RJ-11C phone jack
- Adjustable tone and volume
- Indoor use, surface mountable
- Analog, AC and DC models available
- UL 1459 Listed, FCC part 68 approved and DOC certified
- Weatherproof paging horns



Description	Color	Mfg. Part No.	Graybar ID
Universal telephone alert	Gray	UTA -1	95043181
Universal telephone alert with strobe	Gray	UTA-WH-VPS	95043182
Chime telephone alert for use up to 1,000 sq. ft.	Gray	CH-AT1-W	88276994
Chime telephone alert for use 1,000 - 5,000 sq. ft.	Gray	CH-BT1	88277001
Warble telephone alert for use 1,000 - 5,000 sq. ft.	Gray	WR-AT1-W	88277096
8", 15-Watt paging horn	Gray	ST-H15-B	94039112
10", 30-Watt paging horn	Gray	ST-H30	94073700



UTA-1



UTA-WH

GRAYBAR AND WIREMOLD/LEGRAND ARE GIVING YOU A NEW WAY TO DEAL WITH THE COMPETITION.

IT'S CALLED WORKING TWICE AS FAST.



Now more than ever, electrical contractors are asked to work harder, for less money. Work safer, to lower insurance costs. And work smarter, so they can get to the *next* job faster. Markets are shifting, and margins are shrinking. There's a shortage of qualified workers, and customers have never been more demanding.

How can you juggle it all, while turning a profit on every job? By using *Graybar ESP*, a new set of products and services to help you work with greater efficiency, safety and productivity. Like the one we're showcasing here. If you're ready to win more business, we're ready to show you the way.

For your free copy of *Winning More Business with Graybar ESP*, visit graybar.com/esp, ask your Graybar representative or call 1-800-GRAYBAR (472-9227).



The new Wiremold® Evolution™ Series Poke-Thru Device: Now you can wire more power, including hospital grade and IG receptacles, data and A/V all in one device. With more capacity and configurability than any other unit on the market, one unit can do the job of two. For more information on the highest-capacity poke-thru device on the market today, go to graybar.com/esp.





Wire and Cable Management

2400 Series Raceway

The 2400 series raceway is a low-profile, steel raceway that provides functionality, flexibility and aesthetics for single or dual service applications. For single services, the 2400 single compartment raceway is designed for communication or power applications and now features in-line receptacles for a clean look without a separate box to mount. With the 2400D series, you get a compact, dual-compartment raceway that's perfect for jobs that require both power and communications, so you can slash installation time while providing access to both power and data.



Features and Benefits

- New streamlined, downward-facing, over-the-raceway device box for receptacles and communications jacks
- One- and two-gang device boxes for single- or dual-service applications
- In-line field-configurable receptacles can be installed without a box
- Accepts standard and proprietary devices for voice, data, audio and video applications

Description	Mfg. Part No.	Graybar ID
Raceway base	V2400B	90057429
Raceway cover	V2400C	90057431
Raceway base and cover	V2400BC	90094446

Plugmold® Multi-Outlet Strips

Today's kitchens house a multitude of appliances. Plugmold® systems provide the convenient, multiple power outlets they require, in a sleek, low-profile design that discourages clutter. Unlike traditional, middle-of-the-wall outlets that interrupt the design of the room, Plugmold complements the look of today's open, well-organized kitchens, and is an ideal source of power for both counters and kitchen islands..



Features and Benefits

- 3/4 in. depth requires minimal space and allows for a row of multiple outlets
- Steel Plugmold can be custom colored to match counter surfaces or appliances
- Aluminum Plugmold offers high-tech appearance and corrosion resistance

Length	Wiring Config	# Outlets	Finish	Mfg. Part No.	Graybar ID
3'	GB	6 Single 15A	Black, white, stainless steel, ivory or gray	20GB306	88279201
5'	GB	10 Single 15A	Black, white, stainless steel, ivory or gray	20GB506	88279202
5'	GB	10 Single 20A	Black, white, stainless steel, ivory or gray	V24GB506	90057415
6'	GB	12 Single 15A	Aluminum	AL20GB606	95006802

Note: Other lengths and configurations available

863 Series Retrofit Residential Floor Box for Wood Floor Applications

The 863 series residential wood floor boxes provide an excellent and cost-effective solution for power and communication requirements in open space areas. The 863 series provides dual-service capability in an unobtrusive, compact, round floor box package. The 863 series is available in both brass and aluminum round covers that will add good looks to any residential wood floor application.



Features and Benefits

- Dual-service box provides duplex power and two ports of communication services
- Individual communication device covers for better protection
- For use on tile, carpet or wood-covered floors

Round PVC Floor Box with 15 Amp 125 Volt Duplex Receptacle, One Coax F Connector, One RJ45 Cat. 5e Connector

Description	Mfg. Part No.	Graybar ID
Brass duplex opening cover plate with two flip lids	863DPCOM	25189117
Brushed aluminum duplex opening cover plate with two flip lids	863DPCOMAL	25189118
Brass duplex opening cover plate w/ single flip lid – decorator-style receptacle	863DRGFICOM	25189120
Brushed aluminum duplex opening cover plate with single flip lid – decorator-style receptacle	863DRGFICOMAL	25189121

WallSource™ Multiple Service Box

This is where it all comes together: power, data, voice or video connections – all in one box. The WallSource™ box eliminates the ugly clutter of multiple boxes. It's also designed to change as your workplace needs change, thanks to faceplates and connectivity inserts that can be installed in seconds. The WallSource box is the in-wall wiring box that's ready for anything. It is where flexibility, convenience and smart design all come together.



Features and Benefits

- Adjustable mounting brackets for quickly mounting box between 16 in. studs and at various wall thicknesses
- Multiple knockouts on the top and bottom for easy access
- Slide-in dividers to separate power and communications wiring

L	W	D	Gang	Trade Size KO's	Mfg. Part No.	Graybar ID
4-3/4"	5"	3-1/4"	2"	1/2, 3/4, 1	WSB42-2	99533449
9-3/16"	5"	3-1/4"	4"	1/2, 3/4, 1, 1-1/2	WSA42-4	98409462
13-3/4"	5"	3-1/4"	6"	1/2, 3/4, 1, 1-1/2	WSC42-6	99533489

Note: A complete line of faceplates and brackets are available

The New Look
of Wire and Cable
Management

2400 Series Raceway

Plugmold® Multi-Outlet
Strips

863 Series Retrofit
Residential Floor Box for
Wood Floor Applications

WallSource™ Multiple
Service Box



Construction Hardware

812M Conduit Clips

Conduit clips from ERICO® can be used with beam clamps for both vertical and horizontal installation of conduit. The clips have finger-close capability and offer a load rating of 100 lbs. for a vertical installation and 25 lbs. for a horizontal installation.

Conduit Size	Mounting Hole	Mfg. Part No.	Graybar ID
1/2" to 3/4"	9/32" Plain	812M	88091839



Conduit Clamps with Bolts

The CD series of conduit clamps with bolts can be installed quickly and easily with a screwdriver or nut driver and accommodates 1/2 in. through 4 in. EMT or rigid conduit. The retained bolt and built-in nut means there are less parts to handle or drop. The series features a bright zinc finish and the screw has a slotted hex #3 Phillips and #2 Robertson combo head.

Rigid	Conduit Size EMT	Mfg. Part No.	Graybar ID
1/2"	1/2"	CD0B*	88091892
3/4"	3/4"	CD1B*	88091894
1"	1"	CD2B*	88091896
—	1-1/4"	CD2.5B*	88091898
1-1/4"	1-1/2"	CD3B*	88091900
1-1/2"	—	CD4B*	88091902
2"	2"	CD5B*	88091904
2-1/2"	2-1/2"	CD6B	88091906
3"	3"	CD7B	88091908
3-1/2"	3-1/2"	CD8B	88091910
4"	4"	CD9B	88091912

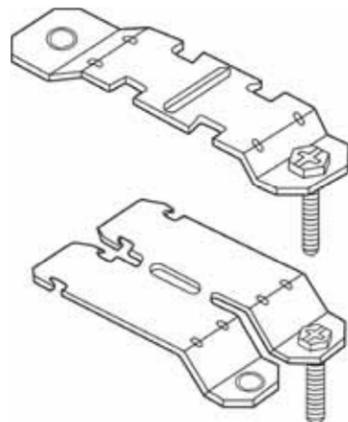


Note: * Manufactured with retained bolt and built-in nut

Universal One-Piece Strut Clamp SK Series

The SK series features one-piece construction, a bright zinc finish and a retained bolt and built-in nut to prevent dropping of loose parts. One size fits EMT and rigid conduit and installs with a screwdriver, standard wrench or nut driver. Simply break in half and install.

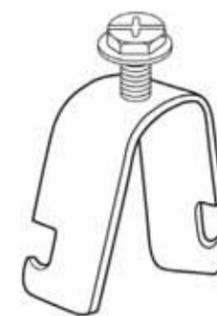
EMT/Rigid	Mfg. Part No.	Graybar ID
1/2"	SK851	89079606
3/4"	SK1251	89079607
1"	SK1651	89079608
1-1/4"	SK2051	89079609
1-1/2"	SK2451	89079610
2"	SK3251	89079611
2-1/2"	SK4051	91004919
3"	SK4851	90094108
3-1/2"	SK5651	91004920
4"	SK6451	91004921



One-Piece Strut Clamp SCH Series

The SCH series offers one-piece installation to prevent dropping screws or bolts and can be installed with only a screwdriver or nut driver. The series features a heavy-duty construction with a bright zinc finish and all sizes are available with a load distribution plate attached to a screw.

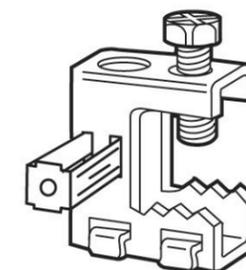
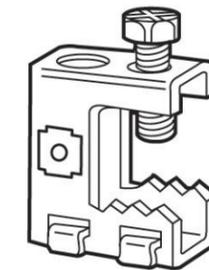
Rigid	EMT	Cable O.D. Range	Mfg. Part No.	Graybar ID
—	1/2"	—	SCH8	25080689
1/2"	3/4"	—	SCH12	25080678
3/4"	1"	—	SCH16	88091972
1"	1-1/4"	—	SCH20	88091973
—	3/8" MC/AC	.10 - .63	SCH6B	92075669
—	1/2"	.34 - .71	SCH8B	92075670
1/2"	3/4"	.57 - .92	SCH12B	92075667
3/4"	1"	.72 - 1.16	SCH16B	92075668
1"	1-1/4"	1.00 - 1.51	SCH20B	92075666
1-1/4"	1-1/2"	1.25 - 1.74	SCH24B	88091974
1-1/2"	2"	1.74 - 2.20	SCH32B	88091975
2"	—	2.00 - 2.38	SCH40B	88091976
2-1/2"	2-1/2"	2.38 - 2.88	SCH48B	88287384
3"	3"	2.72 - 3.50	SCH56B	88091977
3-1/2"	3-1/2"	3.25 - 4.00	SCH64B	88287383
4"	4"	3.85 - 4.50	SCH72B	88091978



Beam Clamps

Beam clamps from ERICO® are easy to install to beam flanges up to 1/2 in. and support 1/4 in. and 3/8 in. threaded rod, S-hooks, electrical boxes, conduit and bridle rings. The clamps accommodate standard 1/4-20 or #10-24 threaded bridle rings.

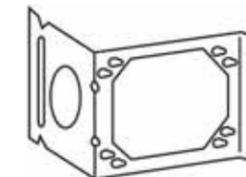
Description	Mfg. Part No.	Graybar ID
Beam clamp thru 1/2" flange	BC	97204816



Box Mounting Bracket for Electrical Box

Box mounting brackets easily attach 4 in. and 4-11/16 in. outlet boxes to metal studs (HS3 switch boxes). They can be attached to metal or wood studs and a support leg reduces movement of the box. The offset design and use of CADDY® #SMS8 low-profile self-tapping screws (not included) reduce drywall bulge.

Application	Box Size(s)	Stud Depth	Qty Per Box	Mfg. Part No.	Graybar ID
U.S.	4" sq. & 4-11/16"	2-1/2" & 3-1/2"	100	H23	88295502



Pathway Components

812M Conduit Clips

Conduit Clamps with Bolts

Universal One-Piece Strut Clamp SK Series

One-Piece Strut Clamp SCH Series

Beam Clamps

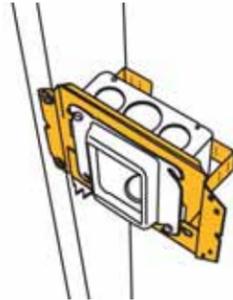
Box Mounting Bracket for Electrical Box



Construction Hardware

MEB (Mounts Electrical Boxes) Hanger

One bracket works for two box depths (1-1/2 in. or 2-1/8 in. deep), two box sizes (4 in. or 4-11/16 sq. in.) and three wall stud depths (2-1/2 in., 3-1/2 in. and 4 in. studs). The all-in-one design simplifies handling, reduces inventory, saves space and requires only a screw gun to install. A v-notch on the center allows for consistent positioning and built-in support legs reduce box movement when used with EMT. The hanger is ideal for flexible conduit, ENT, MC AC or Romex® non-metallic sheathed cable.

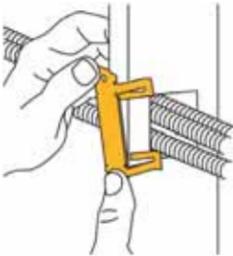


Description	Mfg. Part No.	Graybar ID
Mounts electrical boxes hanger	MEB1	99432273

Note: Romex is a registered trademark of General Cable Corp

Press-On Nail Plate for Wood and Metal Studs

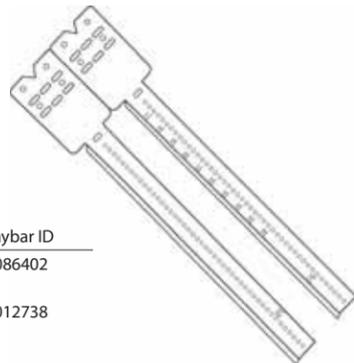
Featuring fast, no-tools-required installation, the Press-on Nail Plate protects electrical, datacomm and plumbing. The plates meet NEC 300.4(b)(2) and are designed to meet CEC 12-516 and 12-616. Breakable tabs permit multiple plates to be ganged together and the plates have a corrosion-resistant zinc phosphate coating.



Description	Mfg. Part No.	Graybar ID
Press-on nail plate	304B2	98405725

Telescoping Screw Gun Box Bracket for Between Studs

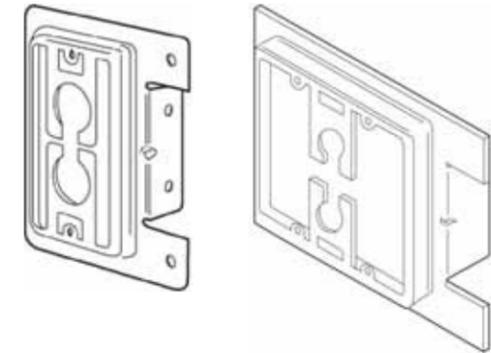
The screw gun box bracket can mount multiple 1-1/2 in. or 2-1/8 in. deep boxes and is notched and marked for easy identification and bending. An improved design with stamped inch markings and pilot holes accelerates precise box and conduit mounting between studs. It can be mounted on face or inside of stud and pilot holes allow easy box attachment with a screwdriver. The break-apart design is adjustable for non-standard stud spacing and interlocking tabs prevent accidental disassembly.



Description	Stud Spacing	Box Depth	Mfg. Part No.	Graybar ID
Adjustable screw gun bracket	11" to 18"	1-1/2" or 2-1/8"	TSGB16	89086402
Adjustable screw gun bracket	17" to 26"	1-1/2" or 2-1/8"	TSGB24	90012738

Low-Voltage Mounting Bracket for New Construction

The low-voltage mounting bracket mounts low-voltage Class 2 communication outlets. Side support provides for a rigid installation to the front or side of metal or wood studs. The bracket also reduces bulges in the dry wall caused by plaster rings and attaches with self-tapping screws or nails. Ideal for 1/2 in. and 5/8 in. dry wall and available in single and double gang.



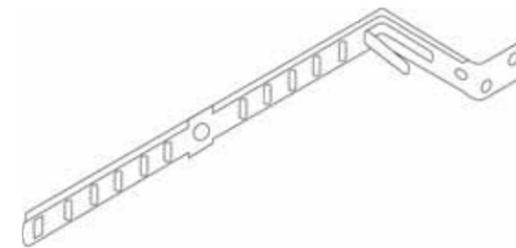
Description	Mfg. Part No.	Graybar ID
Plate mounting bracket for new work	MP15	89027796
Double-gang plate mounting bracket for new work	MP25	93170607

Note: No load rating – positioning only

Colorado Jim Cable Support

The Colorado Jim Cable Support can be used to support up to six runs of nonmetallic sheathed cable or up to four runs of MC and AC cable. It features an easy-to-use locking tab and cable locating ribs to maintain cable separation. Flared edges provide cable protection.

Cable Type	Cable Size	Cables per Fastener	Mfg. Part No.	Graybar ID
Non-metallic sheathed cable	14-2, 12-2, 10-2, 14-3, 12-3 and 10-3 w/ground	6 maximum	CJ6 to Wood	90094368
	8-2 and 6-2 w/ground	4 maximum		
Metal clad (MC) cable	14-2, 12-2, 10-2, 14-3, 12-3, 10-3, 4 and 10-4 w/ground	4 maximum	CJ6 to Metal Stud	90094368



Easy-Snap Grommet

The grommet can be snapped into a standard 1-11/32 in. field-punched hole or snap two together into any shape factory-punched hole. It provides full 360-degree protection for cable and makes cable pulls easier. The grommet complies with NEC Article 300.4(b)(1) and CEC Rule 12-516.

Description	Qty. Per Box	Mfg. Part No.	Graybar ID
Easy snap grommet	100	ESG1	95012645

Note: No load rating – positioning only



Pathway Components

MEB (Mounts Electrical Boxes) Hanger

Press-On Nail Plate for Wood and Metal Studs

Telescoping Screw Gun Box Bracket for Between Studs

Low-Voltage Mounting Bracket for New Construction

Colorado Jim Cable Support

Easy-Snap Grommet



CADDY® CAT LINKS

CADDY® CAT LINKS is the most technologically advanced cable support systems from ERICO®. It is UL® listed and designed to meet the growing market trend of larger diameter cable sizes from the cable industry.

Description	Mfg. Part No.	Graybar ID
Hammer-on assembly for 1/4"-1/8" flange with 360° rotation	CATHP24	25180507
Hammer-on assembly for 1/8"-1/4" flange	CATHP24SM	25180512
Rod/flange assembly for #12 SWG - 1/4" wire or plain rod, 1/4" threaded rod & 1/8"-3/8" flange	CATHP4Z34	25180520
Hammer-on assembly for 5/16"-1/2" flange with 360° rotation	CATHP58	25180508
Hammer-on assembly for 5/16"-1/2" flange	CATHP58SM	25180513
Rod/flange assembly for 3/8" threaded rod & 3/8"-9/16" flange	CATHP6Z34	25180521
Hammer-on assembly for 1/2"-3/4" flange with 360° rotation	CATHP912	25180509
Hammer-on assembly for 1/2"-3/4" flange	CATHP912SM	25180514
Angle bracket with 1/4" threaded rod mounting hole	CATHPA4	25180531
Angle bracket with 3/8" threaded rod mounting hole	CATHPA6	25180504
Z purlin assembly for 1/16"-1/4" flange	CATHPAF14	25180517
Angle bracket with 3/16" mounting hole	CATHPAN	25180530
Screw-on beam assembly for 1/8"-1/2" flange	CATHPBC	25180515
Screw-on beam assembly for 1/8"-5/8" flange	CATHPBC200	25180516
Screw-on beam assembly for 1/8"-5/8" flange with 360° rotation	CATHPBC200B	25180511
Screw-on beam assembly for 1/8"-1/2" flange with 360° rotation	CATHPBCB	25180510
Underfloor assembly for 3/4" round pedestal	CATHPCD0B	25180522
Underfloor assembly for 7/8"-1" round pedestal or 3/4" square pedestal	CATHPCD1B	25180492
Underfloor assembly for 1" square pedestal	CATHPCD2.5B	25180524
Underfloor assembly for 7/8" square pedestal	CATHPCD2B	25180523
Easy strut assembly	CATHPESC	25180519
Cable Puller for CATHP	CATHPPLR	Call
Straight bracket with .282" mounting hole	CATHPS4	25180505
Tree mounting bracket	CATHPTM	25180506
C purlin assembly for 1/16"-1/4" vertical flange	CATHPVF14	25180518



CADDY® CAT LINKS

GRAYBAR AND ERICO® HAVE CREATED A NEW WAY TO RAISE YOUR PRODUCTIVITY.

IT'S CALLED FASTER SUPPORT.



ERICO CADDY® SPEED LINK. Save money, installation time, inventory and shipping costs with CADDY® SPEED LINK. It supports a wide variety of objects—at any angle—without drilling. Easy to adjust, too. (One contractor, who was hanging 250 high-bay lights, saved 15 minutes per fixture.) For more information, go to graybar.com/esp.



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all, we know how you're asked to work harder, for less money. Work safer, to lower insurance costs. And work smarter, so you can get to the next job faster. Markets are shifting, and margins are shrinking. There's a shortage of qualified workers, and customers have never been more demanding.

How can you juggle it all, while turning a profit on every job? By using *Graybar ESP*, a new set of products and services to help you work with greater efficiency, safety and productivity. Just like the new CADDY® SPEED LINK. Are you ready to win more business?

