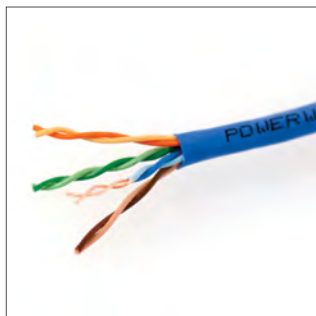
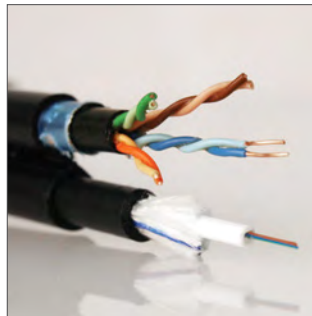


PRODUCT LINE CARD



The PIONEER and TRUE Market Leader in Sustainability

		Product Name	Listing	Part Number ¹	Package	Sustainability	
Category 6A		10Gain® XP CAT 6A	CMR-LP	6H-246-xA	1,000' BrakeBox®	EPD, HPD	
			CMP-LP	6H-246-xB			
		10Gain CAT 6A	CMR	6A-246-xA	1,000' BrakeBox	EPD, HPD	
			CMP	6A-272-xB	1,000' Reel		
		CAT 6A U/FTP (STP)	CMR	6S-220-xA	1,000' Reel	EPD, HPD	
			CMP	6S-220-xB			
		CAT 6A F/UTP (ScTP)	CMR	6F-246-xA	1,000' BrakeBox	EPD, HPD	
			CMP	6F-246-xB			
		CAT 6+ F/UTP (ScTP)	CMR	6T-246-xA	1,000' BrakeBox	EPD, HPD	
			CMP	6T-246-xB			
	NextGain® CAT 6eX	CMR	54-246-xA	1,000' BrakeBox	EPD, HPD		
		CMP	54-246-xB	1,000' BrakeBox			
	DataGain® CAT 6+	CMR	66-246-xA	1,000' BrakeBox	EPD, HPD		
			66-240-xA	1,000' POP™ box			
	CMP	66-246-xB	1,000' BrakeBox				
		66-240-xB	1,000' POP box				
Category 6		CAT 6+ LSHF	CMR-LSHF	66-246-xM	1,000' BrakeBox	EPD, HPD	
		CAT 6 with FEP Jacket	CMP	66-246-xP	1,000' BrakeBox	EPD, HPD 2.0	
		CAT 6	CMR	77-246-xA	1,000' BrakeBox	EPD, HPD	
				77-240-xA	1,000' POP box		
		CMP	77-246-xB	1,000' BrakeBox			
			77-240-xB	1,000' POP box			
		CAT 6	Indoor/Outdoor Sunlight Resistant Indoor/Outdoor	CMR/CMX	77-246-E1	1,000' BrakeBox	-
					77-246-x1		
		Interlock Armored Premises Copper CAT 6 (single component)		CMR	K4-199-xA ²	1,000' Reel	-
					L4-199-xA ³		
	Cobra CAT 5e+		CMR	52-200-x5	1,000' Reel-in-a-Box	EPD, HPD	
				52-240-x5	1,000' POP box		
			CMP	52-200-x8	1,000' Reel-in-a-Box		
				52-241-x8	1,000' POP box		
	CAT 5e+ F/UTP (ScTP)		CMR	5F-220-x5	1,000' Reel	EPD, HPD	
			CMP	5F-220-x8			
	Marathon LAN® CAT 5e		CMR	51-243-x5	1,000' Reel-in-a-Box	EPD, HPD	
				51-240-x5	1,000' POP box		
			CMP	51-243-x8	1,000' Reel-in-a-Box		
				51-241-x8	1,000' POP box		
	CAT 5e F/UTP (ScTP)	Indoor/Outdoor Sunlight Resistant Indoor/Outdoor	CMR/CMX	5F-220-E1	1,000' Reel	-	
				5F-220-x1			
	CAT 5e	Indoor/Outdoor Sunlight Resistant Indoor/Outdoor	CMR/CMX	51-240-E1	1,000' POP box	-	
				51-240-x1			
	25-Pair CAT 5e	Power Sum Indoor/Outdoor	CMR	51-478-x5	1,000' Reel	-	
			CMP	51-478-48			
	Interlock Armored Premises Copper CAT 5e (dual component)		CMR	K2-299-S5 ²	1,000' Reel	-	
				L2-299-S5 ³			
Category 5e		PowerWise® 1G 4PPoE	CMR-LP	PW52-H46-x5	1,000' BrakeBox	EPD, HPD	
			CMP-LP	PW52-H46-x8			
			CMR/CMX	PW52-H46-E1		-	
			CMR/CMX	PW52-H46-x1			
Category 1G		PowerWise® 1G 4PPoE	CMR/CMX	PW52-H46-E1	1,000' BrakeBox	-	

PREMISES COPPER

POWERWISE COPPER

PREMISES COPPER	OSP Broadband	Product Name		Category	Part Number	Product Type	Shield	Package	
			EnduraGain® OSP ⁵	Armored	CAT 6A	04-001-A5	Armored	Copper-clad steel	1,000' Reel
			CAT 6	04-001-65					
			CAT 5e	04-001-55					
			EnduraGain OSP ⁵	Shielded	CAT 6A	04-001-A4	FTP	Coated aluminum tape	1,000' Reel
					CAT 6	04-001-64			
					CAT 5e	04-001-54			
			EnduraGain OSP ⁵	Unshielded	CAT 6	04-001-68	UTP	None	1,000' Reel
					CAT 5e	04-001-58			
			EnduraGain OSP	Armored Indoor/Outdoor	CAT 6A	04-001-A3	Armored	Copper-clad steel	1,000' Reel
					CAT 6	04-001-63			
			EnduraGain OSP	Shielded Indoor/Outdoor	CAT 6A	04-001-A2	FTP	Coated aluminum tape	
					CAT 6	04-001-62			
			EnduraGain OSP Duplex		CAT 5e	04-A01-55	Armored	Copper-clad steel	1,000' Reel

BUNDLED	Product Name	Part Number	Number of Cable Components ⁶			Package
			CAT 6/5e	RG-6 Quad	62.5 2-Fiber	
	Bundled Composite CMR	D3-B169SA	CAT 6 x 2	1	1	Cut to length on reel
		D1-B169S5	CAT 5e x 2	1	1	Cut to length on reel

PREMISES COPPER	CAT 3	Product Name		Listing	Part Number	Jacket Color	Package	Sustainability
			CAT 3	100-Pair	CMR	18-789-33	Gray	Cut to length
		CMP		18-799-36				
		300-Pair	CMR	18-B99-33				
			CMP	18-B99-36				
Coaxial ⁷		Coax RG-11, Quad Shield		CMR	78-348-91	White	1,000' Reel	-
						79-348-91		
				CMP	78-34C-91	White		
				CMR	79-758-91	Black		
			Coax RG-11, 95% Shield		CMP	78-75C-91	White	
		Coax RG-6, Quad Shield		CM/CATV	78-147-9P	White	1,000' POP box	-
						79-147-9P		
				CMR/CATVR	78-148-91	White	1,000' Reel	
					79-148-91	Black		
				CMP/CL2P	78-14C-91	White	1,000' Reel	
					78-14C-9P		1,000' POP box	
		Coax RG-6, Tri-Shield 70%		CM	78-11A-9R	White	1,000' Reel-in-a-Box	-
						79-11A-9R		
				CMR	79-11B-9R	Black		
		Coax RG-6, 60% Shield		CM	78-107-9P	White	1,000' POP box	-
					79-107-9P	Black		
			CMG	78-10G-9P	White			
				79-10G-9P	Black			
			CMP	78-10C-9P	White			
	Coax RG-6, 95% Shield		CMR	79-658-91	Black	1,000' Reel	-	
					CMP	78-65C-9P		White
	Coax RG-59, 95% Shield		CMR/CL2R	78-558-91	White	1,000' Reel	-	
					79-558-91			Black
					CMP/CL2P			78-55C-91
	Coax RG-59, 95% Shield + 18/2		CMP/CL2P	86-57D-A1	White	1,000' Reel	-	
					89-578-A1			Black
					CMR			86-578-A1

¹Where "x" = jacket color (see color key below). ²No outer jacket. ³With outer jacket. For single component cables, the outer jacket color matches the internal component jacket color. For dual component cables, the standard outer jacket color is Blue. ⁴Non-standard jacket colors and other packaging options (types and lengths) available with minimum order quantity and lead time. ⁵Also available with optional aluminum interlock armor with overjacket upon request. ⁶Multiple construction options available, including other fiber types and fiber counts upon request. ⁷Interlock Armored option is available for all Coax product. Please contact product manager to have details.

KEY	Standard Jacket Colors		
¹ Replace "x" with:	Blue = 2	Gray = 3	White = 4

Non-standard Jacket Colors ⁴					
Green = 5	Yellow = 6	Purple = 7	Red = 9	Orange = D	Black = E

PREMISES LOOSE-TUBE FIBER	Interconnect	Product Name	Listing	Part Number ¹	Configuration	Fiber Count	Package	Sustainability	
								EPD, HPD	
PREMISES LOOSE-TUBE FIBER	Interconnect	Microarray Data Center Interconnect	OFNR	P3***xx01	3 mm round	2 - 12	Reel	EPD, HPD	
				P3024xxA1	Duplex	24			
			OFNP	V4***xx01	2 mm Round	2 - 12			
				P4***xx01	3 mm round	2 - 12			
	PREMISES LOOSE-TUBE FIBER	Breakout	2 mm Microarray Breakout	OFNP	V4***xxB1	Multi-unit	24	Reel	EPD, HPD
					V4***xx01	Multi-unit	36 - 144		
		Breakout	2 mm Interlock Armored, Microarray Breakout	OFCP	L4***xB1	Multi-unit	24	Reel	EPD, HPD
					L4***xV01	Multi-unit	36 - 144		
		Breakout	3 mm Microarray Breakout	OFNR	P3024xxB1	Multi-unit	24	Reel	EPD, HPD
					P3***xx01		36 - 144		
OFNP				P4024xxB1	Multi-unit	24			
Breakout			3 mm Interlock Armored, Microarray Breakout	OFCR	L3024xPB1	Multi-unit	24	Reel	EPD, HPD
					L3***xP01		36 - 144		
				OFCP	L4024xPB1	Multi-unit	24		
				L4***xP01		36 - 144			








MICROLITE®	Product Name	Listing	Part Number ¹	Configuration	Fiber Count	Package	Sustainability
							EPD, HPD
MICROLITE®	MicroLite® Data Center Interconnect	OFNP	P4024xxC1	3.8 mm round	24	Reel	EPD, HPD
	MicroLite® Distribution		F457-048Uyy-z991	6.4 mm round	48		



ENDURALITE®	Product Name	Listing	Part Number ¹	Configuration	Fiber Count	Package
ENDURALITE®	EnduraLite® Indoor/Outdoor Loose Tube Sunlight Resistant/Dry Block	OFNR	F360-***Uyy-E991	Single unit	2 - 12	Reel
			F360-***Uyy-EA51			1,000' BrakeBox
		OFNP	F460-***Uyy-E991			Reel
			F460-***Uyy-EA51			1,000' BrakeBox
	EnduraLite® Indoor/Outdoor, Loose Tube, Interlock Armored	OFCR	F160-***Uyy-E991	Single unit	2 - 12	Reel
		OFCP	F260-***Uyy-E991			
			F262-***Uyy-E991	Multi-unit	24, 36, 48	

POWERWISE® FIBER	Product Name	Listing	Armor	Part Number	Configuration	Package
POWERWISE® FIBER	PowerWise® Fiber	CL3R-OF/ CMR-OF/ FPLR-OF	No armor	F3C3-002U15-6991-CE9	2 - SMF, 2 - 16 AWG	Reel
			Interlock Armor	F1C3-002U15-6991-CE9		
		CL3P-OF/ CMP-OF/ FPLP-OF	No armor	F4C3-002U15-6991-CE9		

PREMISES RIBBON	Product Name	Listing	Fiber Type	Part Number ¹	Configuration	Fiber Count	Package
PREMISES RIBBON	Ribbon Distribution	OFNR	Single mode	F356-***Uyy-6991	Single unit	12 - 288	Reel
			Multimode	F356-***Uyy-K991			
		OFNP	Single mode	F456-***Uyy-6991			
			Multimode	F456-***Uyy-K991			

		Product Name	Series	Features	Part Number ¹	Fiber Count	
Loose Tube		Loose Tube Single Jacket All Dielectric	11D	Dri-Lite® gel-free	11***xD0b	6 - 288	
			11	PFM™ gel-filled	11***xz0b	2 - 432	
			1NY	PFM gel-filled, nylon overjacket	11***xN0b	2 - 288	
			Loose Tube Double Jacket All Dielectric	1GD	Dri-Lite gel-free	1G***xD0b	6 - 288
				1G	PFM gel-filled	1G***xz0b	2 - 288
			Loose Tube Single Jacket Single Armor	12D	Dri-Lite gel-free	12***xD0b	6 - 288
				12	PFM gel-filled	12***xz0b	2 - 432
	Loose Tube Double Jacket Single Armor	1AD	Dri-Lite gel-free	1A***xD0b	6 - 288		
		1A	PFM gel-filled	1A***xz0b	2 - 288		
	Loose Tube Double Jacket Double Armor	1DD	Dri-Lite gel-free	1D***xD0b	6 - 288		
		1D	PFM gel-filled	1D***xz0b	2 - 288		
	Loose Tube Triple Jacket Double Armor	1CD	Dri-Lite gel-free	1C***xD0b	6 - 144		
		1C	PFM gel-filled	1C***xz0b	2 - 144		
		Air Blown Micro Fiber	LT	Dry (SAP) core standard	FJ10-***xxx-E991	24 - 288	
Outdoor/Indoor		Loose Tube Outdoor/Indoor	13D	Dri-Lite gel-free OFNR	13***xD0b	6 - 288	
			13	PFM gel-filled OFNR	13***xz0b	2 - 288	
			13I	Interlock armored OFCR	L3***x10b	2 - 144	
		Loose Tube Outdoor/Indoor LSZH	HZD	Single jacket, all dielectric OFNR-LS	FH16-***xxx-E99b	6 - 288	
			HZA	Single jacket, single armor OFCR-LS	FH25-***xxx-E99b	6 - 288	
		Heavy Duty Loose Tube	1H	OFNR	1H***xz0b	2 - 216	
ADSS		All Dielectric Self Supporting (ADSS)	1F100	100 meter span	FE11-***xxx-E99b ²	6 - 288	
			1F200	200 meter span	FE12-***xxx-E99b ²	6 - 288	
			1F400	400 meter span	FE14-***U10-E991	6 - 288	
Miscellaneous		Single Loose Tube	51	All dielectric	51***xz0b	2 - 96	
			52	Single armor	52***xz0b	2 - 96	
			53	Indoor/Outdoor OFNR	53***xz0b	2 - 96	
		Single Flex Tube	F1	All dielectric	F1***xz0b	2 - 96	
			F2	Single armor	F2***xz5b	2 - 96	
		Flex Tube Locate	FM	Metallic locatable tape	FM***x1Sb	2 - 96	
FTTP		UG FTTP	513	All dielectric	51***xz0b	2 - 12	
			Buried FTTP	52S	Steel armor	52***xS0b	2 - 12
				52U	Steel armor with rip cords	52***xU0b	2 - 12
		523	Aluminum armor	52***xz0b	2 - 12		
		Figure 8 FTTP	573Q	21 mm solid steel self support	57***x23Q	1 - 12	
	Oval Drop FTTP		Oval Drop FTTP	6U	MDPE Universal	6U***x1RG	2 - 12
			6T	MDPE Toneable	6T***x1RG	2 - 12	
			6S	PVC Universal	6S***x1RG	2 - 12	
			6R	PVC Toneable	6R***x1RG	2 - 12	
		FTTP Tight Buffered I/O Drop	W7U	MDPE Universal	W7***KU0b	1 - 2	
			W7T	MDPE Toneable	W7***K10b	1 - 2	
Ribbon		Ribbon Locate	RM	Metallic locatable tape	RM***x1Sb ²	60 - 216	
			Single Tube Ribbon	R1D	Dri-Lite gel-free, all dielectric	R1***xD0b ²	12 - 432
			R1	PFM gel filled, all dielectric	R1***x10b ²	12 - 432	
			R2D	Dri-Lite gel-free, single armor	R2***xDSb ²	12 - 432	
			R2	PFM gel filled, single armor	R2***x1Sb ²	12 - 432	
	Stranded Tube Ribbon	S2	Single armor	S2***x10b ²	360 - 1,008		
Loose Tube Self Support		Loose Tube Single Jacket Self Support	11DM	Dri-Lite gel-free	11***xDMb	6 - 288	
			11M	PFM gel-filled	11***zMb	2 - 288	
			11MLS	Long-span ½" messenger	11***KDLb	6 - 288	
		Long-span ¾" messenger		11***KDKb	6 - 288		
		Loose Tube Double Jacket Self Support	1GDM	Dri-Lite gel-free	1G***xDMb	6 - 120	
			1GM	PFM gel-filled	1G***zMb	2 - 120	
		Loose Tube Single Jacket Single Armor Self Support	12DM	Dri-Lite gel-free	12***xDMb	6 - 288	
			12M	PFM gel-filled	12***zMb	2 - 288	
	Loose Tube Double Jacket Single Armor Self Support	1ADM	Dri-Lite gel-free	1A***xDMb	6 - 120		
	1AM	PFM gel-filled	1A***zMb	2 - 120			

OSP COMPOSITE		Product Name	Series	Features	Part Number ³	Copper Pair Count	Fiber Count
		Buried Drop Composite	Fiber/copper composite with aluminum armor	72	Fiber/copper composite with steel armor	72***x32b	2
72***x33b	3						
72***x36b	6						
72S	72***x32S			2		2 - 12	
	72***x33S			3			
	72***x36S			6			
	Composite Right of Way	MR	Fiber/copper composite for small conduits	MR0723011	12	72	
	Composite CAT 5e Drop	5F	Composite with 4 fibers and CAT 5e	11-003-30	4	4	
	Composite Drop Web	5W	Fiber/copper composite with 2 - 12 fibers and 2 or 5 copper pairs	5W***x01Q	2	2 - 12	
				5W***x02Q	5	2 - 12	
	Composite OSP Web	5V	Fiber/copper composite with 6 - 24 fibers and 6 - 25 copper pairs	5V***x061	6	6 - 24	
				5V***x121	12		
				5V***x181	18		
				5V***x251	25		
	Composite OSP Overjacket	70 OJ	Fiber/copper composite with 48 - 96 fibers and 50 - 200 copper pairs	70-065-24	50	24	
				70-073-96	200	96	
	Composite Round CF	L	Many fiber constructions with 1 - 3 copper pairs	11***C02Q	1	2 - 288	
				12***C103	1 - 3		

FTTA		Product Name	Part Number	Conductor Count	AWG (mm)	Fiber Component	Fiber Count
		Fiber-to-the-Antenna (FTTA) Fiber OFNR		53012K01Q	-	-	Central tube
53024K01Q				24			
53048K01Q				48			
	Fiber-to-the-Antenna (FTTA) Hybrid Fiber + Power		FHG3-012-U13-E991	6	8 (3.26)	Tight buffer	12
			FHG2-012-U13-E991			Central tube	
			FHG1-012-U13-E991			Loose tube	

¹Where "****" = fiber count (i.e. 001, 002, 004, 006, 008, 012...), "x" = fiber type, "z" = special attribute, "b" = jacket print code and "O" = standard product (refer to keys below).

²These products are only available with single mode (SMF) fiber types. ³Where "****" = fiber count (i.e. 001, 002, 004, 006, 008, 012...), "x" = fiber type and "O" = standard product (refer to keys below).

KEY	Single Mode Fiber (SMF) Types						
	Reduced Water Peak	Zero Water Peak	TeraFlex® Bend Resistant			NZDS	LEAF
			G.657.A1	G.657.A2	G.657.B3		
¹ Replace "x" with:	3	2	K	J	L	8	S
¹ Replace "xxx" with:	U10	U17	U13	U14	U15	U19	C19



	Multimode Fiber (MMF) Types			
	TeraGain® 62.5/125	TeraFlex Bend Resistant Laser Optimized 50/125		
		10G/150	10G/300	10G/550
¹ Replace "x" with:	6	M	N	P
¹ Replace "xxx" with:	U23	U28	U30	U32







KEY	Special Attributes		
	12-fiber tubes with		TeraGain MMF 12-fiber tubes
	< 36 fibers	> 36 fibers	
¹ Replace "z" with:	T	1	G




	Jacket Print Codes			
	Dry core		Dry core special	
	Feet	Meters	Feet	Meters
¹ Replace "b" with:	1	2	5	6

		Product Name	Part Number	Pair Count	AWG (mm)	Standard Length ft (m)	Reel Size F x T x D in
SEALPIC		SEALPIC® (air core)	01-097-40	25	24 (0.51)	5,000 (1,524)	44 x 18 x 20
			01-100-40	50			46 x 25 x 20
			01-104-40	100			58 x 25 x 20
		SEALPIC-84 (air core self support)	01-092-38	6	24 (0.51)	5,000 (1,524)	46 x 25 x 20
			01-097-38	25			58 x 25 x 20
			01-104-38	100			72 x 36 x 36
		SEALPIC-FSF-84 (filled self support)	09-092-05	6	24 (0.51)	5,000 (1,524)	46 x 25 x 20
			09-097-05	25			58 x 25 x 20
			09-104-05	100			72 x 36 x 36
		SEALPIC-FSF RDUP PE-89	09-062-02	25	22 (0.64)	5,000 (1,524)	46 x 25 x 20
			09-069-02	100			62 x 30 x 24
			09-075-02	300			58 x 25 x 20
			09-081-02	600	24 (0.51)	5,000 (1,524)	72 x 35 x 36
			09-092-02	6			36 x 18 x 14
			09-097-02	25			44 x 18 x 20
09-104-02			100	58 x 25 x 20			
09-110-02	300	2,500 (762)	65 x 30 x 32				
	SEALPIC-F RDUP PE-39	04-092-21	6	24 (0.51)	5,000 (1,524)	36 x 18 x 14	
		04-097-21	25			46 x 25 x 20	
		04-104-21	100			65 x 30 x 32	
	CUPIC-F® RDUP PE-39	04-092-04	6	24 (0.51)	5,000 (1,524)	36 x 18 x 14	
		04-097-04	25			46 x 25 x 20	
		04-104-04	100			65 x 30 x 32	
	GOPIC®-F RDUP PE-39	04-092-27	6	24 (0.51)	5,000 (1,524)	36 x 18 x 14	
		04-097-27	25			46 x 25 x 20	
		04-104-27	100			65 x 30 x 32	
	CASPIC®-FSF RDUP PE-89	09-092-92	6	24 (0.51)	5,000 (1,524)	36 x 18 x 14	
		09-097-92	25			46 x 25 x 20	
		09-104-92	100			58 x 25 x 20	

		Product Name	Part Number	Pair Count	AWG (mm)	Wire Color	Standard Length ft (m)	Package
Aerial		ADP NMS	12-031-08	1	22 (0.64)	-	750 (229)	POP™ box
			12-004-08	2			750 (229)	
			12-019-08	3			600 (183)	
			12-519-08	5			400 (122)	
			12-009-08	6			1,000 (305)	Reel
Buried		ADP S	12-301-07	3	22 (0.64)	-	1,000 (305)	Reel
				BDW A	04-089-85	2	24 (0.51)	-
	04-104-85	6						
	BDW G	04-053-17		2	22 (0.64)	-	2,500 (762)	Reel
		04-062-16		6				
	Miscellaneous		BW GDJ	25-360-79	3	22 (0.64)	-	1,200 (366)
25-555-79				5	1,000 (305)			
		BW AF	25-069-86	2	22 (0.64)	-	1,300 (396)	Reel
			25-549-86	5			5,000 (1,676)	
Miscellaneous		Temporary Drop Wire TDW	12-311-36	2	22 (0.64)	Red/Green, Yellow/Black	1,000 (305)	POP box
			12-331-36	1	24 (0.51)	Red/Green	2,000 (610)	
		Ground Wire Gray Jacketed	12-101-04	-	6 (4.12)	-	200 (61)	Boxed coil
			12-111-04	-	10 (2.59)	-		
		Cross-Connect CAT 5 Wire XCW	02-011-23	1	24 (0.51)	White/Blue	1,000 (305)	Spool
			02-032-23			Violet/Blue		
			Indoor/Outdoor Cross-Connect Wire XCW	Indoor/Outdoor Cross-Connect Wire XCW	02-111-13	1	22 (0.64)	White/Blue
02-102-13	Yellow/Blue							
02-001-13	24 (0.51)	White/Blue			600 (183)			
02-D02-13		Yellow/Blue						

DAS HYBRID		Cables	Part Number	Conductor Count	Conductor Type	AWG (mm)	Fiber Count	Fiber Type
		DAS Hybrid Fiber + Copper, Plenum	F4C2-012U13-6991-CE5	4	19 x 0.185"	12 (2.05)	12	SMF TeraFlex® Bend Resistant G.657.A1
		Interlock Armored DAS Hybrid Fiber + Copper, Plenum	F2C2-012U13-6991-CE5	4	19 x 0.185"	12 (2.05)	12	SMF TeraFlex® Bend Resistant G.657.A1

DAS CABLE AND CONNECTORS		Cables	Compatible DIN Connectors	Compatible N Connectors	Connector Interface Type	
					Gender	Straight or Angle
Riser		HFSC-12DR ½" Super Flexible, Foam Dielectric Copper Corrugated Outer Conductor ETL listed CMR	CHFS-12DM	CHFS-12NM	Male	Straight
			CHFS-12DF	CHFS-12NF	Female	Straight
			CHFS-12DMR	CHFS-12NMR	Male	Right Angle
		LHF-12DR ½" Low Loss, High Flexible, Foam Dielectric Copper Corrugated Outer Conductor ETL Listed CMR	CLH-12DM	CLH-12NM	Male	Straight
			CLH-12DF	CLH-12NF	Female	Straight
			CLH-12DMR	CLH-12NMR	Male	Right Angle
		HFAC-12DR ½" Low Loss, High Flexible, Foam Dielectric Aluminum Corrugated Outer Conductor ETL Listed CMR	CHFA-12DM	CHFA-12NM	Male	Straight
			CHFA-12DF	CHFA-12NF	Female	Straight
			-	CHFA-12NMR	Male	Right Angle
		-	CHFA-12NFR	Female	Right Angle	
Plenum		HFSC-12DP ½" Super Flexible, Air Dielectric Copper Corrugated Outer Conductor ETL Listed CMP	CHFSP-12DM	CHFSP-12NM	Male	Straight
			CHFSP-12DF	CHFSP-12NF	Female	Straight
			CHFSP-12DMR	CHFSP-12NMR	Male	Right Angle
		LHF-12DPV ½" Low Loss, High Flexible, Air Dielectric Copper Corrugated Outer Conductor ETL Listed CMP PVC Jacket	CLHPV-12DM	CLHPV-12NM	Male	Straight
			CLHPV-12DF	CLHPV-12NF	Female	Straight
			-	CLHPV-12NMR	Male	Right Angle
		HFAC-12DPV ½" Low Loss, High Flexible, Air Dielectric Aluminum Corrugated Outer Conductor ETL Listed CMP	CLHPV-12DM	CLHPV-12NM	Male	Straight
			CLHPV-12DF	CLHPV-12NF	Female	Straight
			-	CLHPV-12NMR	Male	Right Angle

CABLE PREP		Part Number	Description	Compatible Cable/ Tool
Tools		T-HFSC12DR	Cable Prep Drill Tool	HFSC-12DR
		T-LHF12DR		LHF-12DR
		T-HFAC12DR		HFAC-12DR
		T-HFSC12DP		HFSC-12DP
		T-LHFA12DPV		LHF-12DPV, HFAC-12DPV
Tools		TF-LHFA12	Flare and Foam Separator	LHF-12DPV, LHF-12DR, HFAC-12DPV, HFAC-12DR
		TF-HFSC12		HFSC-12DP, HFSC-12DR
Blade Kits		TBK-LHFA12	Replacement Blade Kit for Automatic Cable Prep Tool	T-LHFA12DPV, T-LHF12DR, T-HFAC12DR
		TBK-HFSC12		T-HFSC12DP, T-HFSC12DR







FTTA	Cable	Part Number	Conductor Count	AWG (mm)	Fiber Component	
					Fiber Component	Fiber Count
	Fiber-to-the-Antenna (FTTA) Fiber OFNR	53012K01Q	-	-	Central tube	12
		53024K01Q				24
		53048K01Q				48
	Fiber-to-the-Antenna (FTTA) Hybrid Fiber + Power	GM012K221	6	8 (3.26)	Tight buffer	12
		GM012K111			Central tube	
		GM012K011			Loose tube	

REF CABLE AND CONNECTORS	Cables	Compatible DIN Connectors	Compatible N Connectors	Connector Interface Type	
				Gender	Straight or Angle
Super Flex		CHFS-12DM	CHFS 12NM	Male	Straight
				Female	Straight
				Male	Right Angle
Low Loss		CLH-12DM	CLH-12NM	Male	Straight
				Female	Straight
				Male	Right Angle
Ultra Low Loss		CLH-22DM	CLH-22NM	Male	Straight
				Female	Straight
				Male	Straight
Ultra Low Loss		CLH-42DM	CLH-42NM	Male	Straight
				Female	Straight
				Female	Straight

HANGER KITS	Part Number	Description	Unit of Measure
Standard	LBHS12NH	½" Cable Standard Hangers	Kit of 10
	LBHS22NH	¾" Cable Standard Hangers	Kit of 10
	LBHS33NH	1¼" Cable Standard Hangers	Kit of 10
	LBHS42NH	1½" Cable Standard Hangers	Kit of 10
Stackable Snap-In	L-SH-S12	½" Cable Stackable Snap-In Hangers	Kit of 10
	L-SH-S22	¾" Cable Stackable Snap-In Hangers	Kit of 10
	L-SH-S33	1¼" Cable Stackable Snap-In Hangers	Kit of 10
	L-SH-S42	1½" Cable Stackable Snap-In Hangers	Kit of 10
Universal Snap-In	L-SH-U12	½" Cable Universal Snap-In Hangers	Kit of 10
	L-SH-U22	¾" Cable Universal Snap-In Hangers	Kit of 10
	L-SH-U33	1¼" Cable Universal Snap-In Hangers	Kit of 10
	L-SH-U42	1½" Cable Universal Snap-In Hangers	Kit of 10

ADAPTER KITS	Part Number	Description	Unit of Measure
	RM-A100	1" to 2" Round Adapters	Kit of 10
	RM-A300	3" to 4" Round Adapters	Kit of 10
	SA-SS200	1½" to 3½" Stand-Off Adapters	Kit of 10
	SA-SS300	2" to 4.5" Stand-Off Adapters	Kit of 10
	L-SA-38	3-Way Stand-Off Adapters	Kit of 10
	AA-SL	Angle Adapters	Kit of 10

OTHER ACCESSORIES	Part Number	Description	Unit of Measure
Grounding	L-GK-C12	½" Cable Grounding Kit - Clip-on Type	Kit
	L-GK-C22	¾" Cable Grounding Kit - Clip-on Type	Kit
	L-GK-C42	1½" Cable Grounding Kit - Clip-on Type	Kit
Hoisting Grips	L-HG-12	½" Cable Hoisting Grip - Lace-Up	Each
	L-HG-22	¾" Cable Hoisting Grip - Lace-Up	Each
	L-HG-33	1¼" Cable Hoisting Grip - Lace-Up	Each
	L-HG-42	1½" Cable Hoisting Grip - Lace-Up	Each
	L-HG-12L	½" Cable Hoisting Grip - Pre-Laced	Each
	L-HG-22L	¾" Cable Hoisting Grip - Pre-Laced	Each
	L-HG-42L	1½" Cable Hoisting Grip - Pre-Laced	Each
Boots	LBA-12-1A	½" Cable Boot Assembly, 4" with 1 Hole	Kit
	LBA-22-1A	¾" Cable Boot Assembly, 4" with 1 Hole	Kit
	LBA-42-1A	1½" Cable Boot Assembly, 4" with 1 Hole	Kit
Surge Arrestors	AGDMDF02	Surge Arrestor - Wide Band (DC Pass) DIN Male/DIN Female	Each
	AG-NFNF	Surge Arrestor - Wide Band (DC Pass) N Female/N Female	Each
	ATNMNF700	Surge Arrestor - 700-2,700 Wave 4 N Male/N Female	Each
	ATDMDF700	Surge Arrestor - 700-2,700 MHz Wave 4 DIN Male/DIN Female	Each
	AT-NMNF-W	Surge Arrestor - 800-2,700 MHz Wave 4 N Male/N Female	Each
	AT-DMDF-W	Surge Arrestor - 800-2,700 MHz Wave 4 DIN Male/DIN Female	Each
Tools	L-CT-12D	½" Cable Cutting Tool - LHF and HFAC	Each
	L-CT-12DS	½" Cable Cutting Tool - HFSC	Each
	L-CT-22D	¾" Cable Cutting Tool - LHF	Each
	L-FT-42D	1½" Cable Cutting Tool - LHF	Each
Miscellaneous	L-WK-U	Universal Weatherproofing Kit	Kit
	GB0424TU	Ground Bus Bar Kit	Kit
	WPSANT12D	Weather Proofing Shell - Antenna to ½" DIN	Each
	WPS12158D	Weather Proofing Shell - ½" to 1½" DIN	Each
	WATS-38	Anti-Theft Hardware Kit	Kit

	Product Name	Listing	Part Number	Conductor Count	AWG (mm)	Jacket Color	Package
	Fire Alarm, Non-Shielded Power Limited	FPLR/CL3R/CMR	2F-212-91	2	16 (1.29)	Red	1,000' Ribbed spool
		FPLP/CL3P/CMP	2F-212-93				
	Fire Alarm, Shielded Power Limited	FPLR/CL3R/CMR	2F-132-92	4	18 (1.02)	Red	1,000' Ribbed spool
		FPLP/CL3P/CMP	2F-132-94				
	Interlock Armored Fire Alarm Riser, Non-Shielded	FPLR/CL3R	K2F-419-91	2	12 (2.05)	Red	1,000' Wood reel
			K2F-339-91	4	14 (1.63)		1,000' Wood reel
	Security Control, Non-Shielded Power Limited	FPLR/CL3R/CMR	2F-D12-31	2	16 (1.46)	Gray	1,000' Ribbed spool
		FPLP/CL3P/CMP	2F-D34-43	4	16 (1.46)	White	1,000' Reel-in-a-Box
	Security Control, Shielded Power Limited	FPLR/CL3R/CMR	2F-D12-32	2	16 (1.46)	Gray	1,000' Ribbed spool
		FPLP/CL3P/CMP	2F-D12-44			White	
	Access Control Composite	CMR/CL3R/FPLR	AC-A12-55	4 x 18 AWG 3 pairs x 22 AWG 4 x 22 AWG 2 x 22 AWG		Green	1,000' Wood reel
		CMP/CL3P/FPLP	AC-A12-68			Yellow	500' Wood reel
		CMR/CL3R/FPLR	AC-A13-55			Green	
		CMP/CL3P/FPLP	AC-A13-68			Yellow	



BrakeBox® Dual Brake System

The brake allows for back-tension and over-spin control. The spool may be taken from the box for installation or may be left in the box where the cable pays out through a slotted opening.



POP™ Box

In this package, the cable is coiled into a box. The product pays out through a tube opening in the box. This design does not allow for the cable to be removed as a unit from the box.



Reel-in-a-Box

The cable is placed onto a plastic spool, which is placed into a box. The spool may be taken from the box for installation or may be left in the box where the cable pays out through a slotted opening.



Steel Reel

Long lengths of cable are placed onto steel reels. This reel is environmentally-friendly and recycled for years of service.



Wood/Plywood Reel

Reels may be made of plywood or wood. Our wooden reels can be recycled an average of five times before retirement (see Web site for further details).



Spool or Ribbed Spool

Wire is wound onto a spool and placed inside a box for protection during shipment. Cable is wound onto a ribbed, plastic recyclable spool that is rugged, robust and easy to handle. Spools are smaller than reels.



Parallel Cone

This package is designed to fit into the GMP cast aluminum wire dispensing system (80470 or 80471). When placed on the GMP dispenser, the jumper or distribution frame wire pays out smoothly.



Knock-out Box

Cable is coiled and fastened within a box. Knock out boxes can be identified by a perforated "knock-out" that is removed, allowing access to the cable.



Coils

Coils refer to lengths of cable that have been wrapped into a shape (usually a circle) and fastened with multiple ties. Coils can be custom configured to fit a customer's unique cable and wire feeding systems.

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