



Straight Blade Receptacles

INDUSTRIAL
COMMERCIAL
RESIDENTIAL

A-Intro-1 STRAIGHT BLADE RECEPTACLES

Straight Blade Receptacles

Cooper Wiring Devices receptacles have been designed to provide long-term reliability and ease of installation for a wide variety of applications. They have been engineered to meet and exceed the latest and most severe industry performance standards of the National Electrical Manufacturers Association, Underwriters Laboratories, General Services Administration and Federal Specifications as shown in this catalog.

Cooper's receptacles are precision-manufactured using the finest materials and designed with special features to give them an attractive appearance and make them easy to install. Whatever your application, you'll find a ruggedly built Cooper Wiring Devices receptacle on the following pages that meets the rating, style, and features you need.

Each of our products is inspected at the point of manufacture and thoroughly tested for electrical and mechanical performance as well as for safety characteristics before it is packed.

Hospital Grade Receptacles

Cooper Wiring Devices Hospital Grade receptacles are specially designed for use in all AC single-phase branch circuits and equipment, in hospitals and other health-related facilities as required by NEC® Article 517. Their structural integrity and unique safety features provide the highest level of performance under the most demanding conditions. Combined with industry exclusives such as the screw terminal guards and low heat, 5-leaf plug blade contacts, this line is truly unparalleled for long-term durability.

Industrial Specification Grade Receptacles

Cooper Wiring Devices superior design engineering and material specifications shines throughout this category: Fiberglass-reinforced bottom housings, tapered lead-in backwiring slots, extra-long mounting straps and our exclusive screw terminal guards feature prominently among them. For the safest, most reliable device in industrial locations, this level of specification is most appropriate.

Commercial Specification Grade Receptacles

Designed to fill the need for high-quality but moderately priced Specification Grade Devices, Cooper Wiring Devices also delivers many of its higher-end, fast installation features as well. Safe, reliable performance can be found in all types of applications within their ratings, and most further meet Federal Specification WC-596 where noted. Power outlets for range, dryer, welders and other high current applications also come in a wide variety of NEMA configurations.

Standard Grade Receptacles

Cooper Wiring Devices Standard Grade Receptacles are the industry's finest high-volume duplex receptacles for use in residential and light commercial applications. Contractor-designed features such as longer, wider mounting straps, high impact-resistant faces, and patented wallplate Screw-Catch™ feature ensures fast, easy installations with virtually no callbacks.

Specialty Receptacles

With a broad range of special application receptacles for new construction or renovation, the line includes isolated ground receptacles for noise-sensitive applications, CO/ALR receptacles for use on aluminum wiring and dual voltage receptacles for laboratory use. Cooper Wiring Devices' full line of snap-in receptacles cover a wide variety of OEM applications.

All of Cooper's Straight Blade Receptacles are Underwriters Laboratories (UL) Listed (except where noted). Many are also CSA certified or available as CSA certified. Please consult Cooper Wiring Devices Customer Service for availability. For Straight Blade Receptacles in our Decorator line, please see Section "B" of this catalog.

Straight Blade Receptacles

The Toughest Industrial Specification Grade Receptacles You Can Find Have One Name — Cooper.

Cooper Wiring Devices Industrial Specification Grade Receptacles are designed for hard use industrial, institutional and commercial applications demanding long-term reliability, low maintenance cost and assured performance.

Front View

Patented Screw-Catch™ speeds wallplate installation.

High impact and chemical resistant nylon face holds structural integrity, retains appearance; recessed lead-ins speed blade insertion, reducing “scarring” of face.

Wire stripping aid if hand tool isn't at hand.

Exclusive 5-leaf, solid brass plug blade contacts lower heat rise, provide consistent retention/release and superior electrical performance.

Exclusive screw terminal guards provide fast, easy insulation from conductive surfaces.

Tri-head combination brass terminal screws are backed out, staked and afford maximum installation flexibility.

Back View

Tapered lead-in backwiring slots speed securing up to #10 AWG—solid or stranded.

Solid one-piece brass grounding systems assures ground integrity under heaviest abuse.

Glass reinforced nylon base provides superior strength and high-heat resistance in contact carrier assembly.

Extra-long mounting straps help secure installation in poorly cut wall openings.



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Features and Benefits

Standard Grade 270 Series

Convenient built-in wire stripper provides backup or misplaced tools.

Longer, wider "bridged" mounting strap increases wallboard contact area, virtually eliminating floating installations.

Combination slot/Phillips head mounting and terminal screws ease installation with power screwdrivers.

Unbreakable thermoplastic face and back body eliminates call-backs due to job-site breakage.

Screw-Catch™ captures wallplate screw eliminating hand threading of screw, lost screws and cross-threading.

Wire looper designed to speed termination of both #14 and #12 wire.

Side located grounding screw backed out and ready to wire.

Commercial Specification Grade CR/BR Series

Convenient built-in wire stripper.

Deep recess lead-in slots for easy plug insertion—won't "scar" like smooth-faced receptacles.

Nylon face resists high impact and chemical abuse.

Patented Screw-Catch™ captures wallplate screw eliminating hand threading of screw, lost screws and cross-threading.

Sectioned body of heavy thermoplastic, keyed to steel strap for added strength and durability.

Double-wipe brass grounding assembly.

Sturdy, galvanized steel wraparound yoke.

Easy access to break-off tab for two circuit wiring.

Combination slot/Phillips head mounting and terminal screws.

Automatic grounding clip provides safe ground continuity between strap and metal enclosure — eliminates having to wire a bonding jumper.

One-piece, triple-wipe brass line contacts: superior design for minimum heat rise, maximum plug retention.

Green hex head grounding screw, backed out and staked for easy identification.

Straight Blade Receptacle Tests

To ensure safety and reliability, Cooper Wiring Devices Straight Blade Receptacles are tested, rated and marked according to various standards. The information below indicates the required performance tests specified by industry standards for electrical wiring devices.



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Receptacles		
Classification	Standards	Tests
Standard Grade	UL 498 NEMA WD-1	10 Cycles with Standard Plug Blades
		50 Cycles at 150% Rated Current
		Plug Retention-Hold 3 lbs. on 2 Pole Bladed Plug
		Plug Release-Release 15 lbs. on 2 Pole 3 Wire Plug
		30° Maximum Temperature Rise at Full Rated Current
Industrial Specification Grade and Commercial Specification Grade	UL 498 NEMA WD-1 and Fed. Spec. WC-596 (GSA)	All the Requirements of Standard Grade Plus:
		Total of 20 Cycles with Oversized Blades
		Contact Retention-1 1/2 lbs. on Single Undersized Power Blade, 4 oz. on Undersized Grounding Blade
		Total of 250 Cycles at 200% Rated Current
		100 lbs. for Through Strap Design 50 lbs. for Wraparound Strap Design
		Dielectric. 1000 + 2 x Rated Voltage
Hospital Grade	UL 498 (Hospital Grade) & 544	All the Requirements of Industrial Specification Grade Plus:
		Abrupt Plug Removal
		Impact
		Ground Contact Temperature
		Ground Contact Overstress
		Fault Current
		Mold Stress Relief
		Resistance
		Terminal Strength
		Assembly Security

Industrial Specification Grade Straight Blade Receptacles

2 Pole, 3 Wire Grounding
15A 125V, 20A 125V
20A 277, 20A 125/277V
10A 250V/15A125V



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TESTING & CODE COMPLIANCE

- Listed to UL 498, meets UL Federal Spec. WC-596, (file no. E2369) except as noted.
- Meets all CSA requirements, C22.2 no. 42 (file LR7087), CSA (file no. 6914 (6233-01))
- NOM Certified.

MATERIAL CHARACTERISTICS

Environmental:
Flammability per UL 94 requirements, V2 rated.
Temperature Rating:
-20°C to 70°C.

Duplex and Single Receptacles

FEATURES

- Excellent plug blade retention provided by triple-wipe 0.032" (0.81mm) triple-wipe brass line contacts and 0.050" (1.27mm) brass ground.
- Unique screw terminal guards provide fast, easy insulation from conductive surfaces.
- Heavy gauge, 0.037" (0.94mm) triple-wipe brass line contacts provide excellent long-term plug blade retention.
- High impact and chemical-resistant nylon face.
- Long, broad mounting strap helps reach large panel cutouts for Code Compliance.
- Screw-Catch™ feature on device speeds mounting of wallplates.

Side Wire

Rating A	V/AC	NEMA	Colors	Catalog No.	
				Duplex	Single*
15	125	5-15R	Black	5242BK	—
			Brown	5242B	5251B
			Gray	5242GY	5251GY
			Ivory	5242V	5251V
			White	5242W	5251W
20	125	5-20R	Black	5342BK	—
			Brown	5342B	5351B
			Gray	5342GY	5351GY
			Ivory	5342V	5351V
			White	5342W	5351W
20	277	7-20R	Brown	—	834B
20	125/250	10-20R	Brown	—	805B
			Ivory	—	805V
10/15	125/250	—	Brown	—	6051**

*Single receptacles meet all UL, CSA & Federal Specifications, but differ in design and construction from duplexes noted above.

**Not UL listed.

