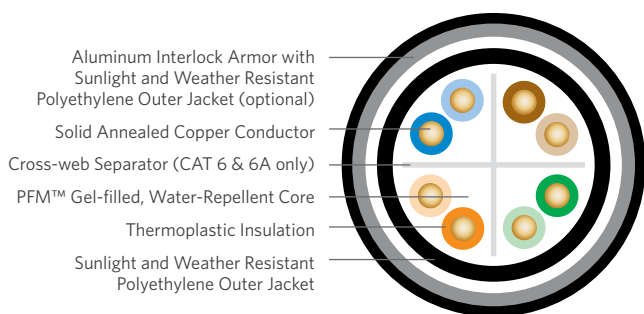


# EnduraGain® OSP Unshielded

Formerly BBD



Aluminum Interlock Armor with Sunlight and Weather Resistant Polyethylene Outer Jacket (optional)

Solid Annealed Copper Conductor

Cross-web Separator (CAT 6 & 6A only)

PFM™ Gel-filled, Water-Repellent Core

Thermoplastic Insulation

Sunlight and Weather Resistant Polyethylene Outer Jacket

## SPECIFICATIONS

Pair Count	4
Conductor	Solid annealed copper
Insulation	Polyolefin
Separator	CAT 6A/6: Polyolefin cross-web CAT 5e: none
Jacket	Black, sunlight and weather resistant polyethylene
Optional Outer Armor	Interlocked aluminum armor covered with black, sunlight and weather resistant polyethylene jacket
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CAT 6A: 65 CAT 6: 68 Cat 5e: 65
Performance Compliance	ANSI/TIA-568.2-D ANSI/ICEA S-107-704-2012 RoHS-compliant/RoHS 2-compliant REACH-compliant

## ENVIRONMENTAL SPECIFICATIONS AND TESTS

Operation	-40°F to +167°F (-40°C to +75°C)
Installation	-40°F to +140°F (-40°C to +60°C)
ANSI/ICEA S-100-685-2009 <b>Tested down to -67°F (-55°C)</b>	Section 7.1: -4°F (-20°C) cold bend test Section 7.2: +14°F (-10°C) cold impact test Section 7.3: -40°F (-40°C) anvil test

## PART NUMBERS AND PHYSICAL CHARACTERISTICS

	Category	Configuration	Part Number	Product Type	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package
<b>NEW</b>	CAT 6A	n/a	04-001-A8	UTP	23 (0.57)	0.37 (9.4)	48 (71)	1,000' reel
	CAT 6	Interlock armored	L4-001-68	UTP	23 (0.57)	0.56 (14.1)	101 (150)	1,000' reel
	CAT 6	n/a	04-001-68	UTP	23 (0.57)	0.30 (7.6)	33 (49)	1,000' reel
	CAT 5e	n/a	04-001-58	UTP	24 (0.51)	0.26 (6.6)	24 (36)	1,000' reel

Additional part numbers, constructions and packaging available upon request.

## PRODUCT DESCRIPTION

EnduraGain® OSP Unshielded is a robust category cable designed to provide an extension of the LAN beyond the premises or in situations where the NEC code requires an OSP-rated cable when it is in contact with earth, whether in a conduit or not. The cable consists of a core of four (4) balanced twisted pairs surrounded by Superior Essex PFM™ gel that does not drip or flow, even in cell tower applications at elevated temperatures. The core is jacketed with a sunlight and abrasion resistant black, polyethylene outer jacket. This unshielded design is suitable for the following deployments: duct, underground conduit and tower.

EnduraGain OSP Unshielded is available in a variety of performances including CAT 5e, CAT 6 and CAT 6A. An optional Aluminum Interlock Armor with overjacket is also available (not suitable for tower deployment).

## APPLICATIONS

- CAT 6A: 10BASE-T through 10GBASE-T Ethernet
- CAT 6: 10BASE-T through 5GBASE-T Ethernet
- CAT 5e: 10BASE-T through 2.5GBASE-T Ethernet
- Power over Ethernet (PoE) - IEEE 802.3bt Type 1 to 4
- ATM and token ring

## FEATURES

- Transmission performance characterized to 500 MHz for CAT 6A/6 and 350 MHz for CAT 5e
- Unshielded
- PFM gel-filled core construction
- OSP-grade black polyethylene jacket
- ColorTip® circuit identification system
- Aluminum interlock armored construction

## BENEFITS

- Assures ample overhead for reliable transmission in an OSP-rated cable allowing extension of the premises LAN
- Small, robust design
- Prevents intrusion of and easily wipes clean during installation
- Outside plant rated cable for years of reliable performance
- Easily identifiable conductor mates even in low-light environments
- Protects against mechanical stresses
- Installs faster and easier than EMT conduit and conventional wire



## TECHNICAL GUIDELINE

Special connectivity is required for these cable designs. Refer to the "Resources" section on our site for the Technical Guideline, "OSP Broadband Installation Guidelines," for more information.