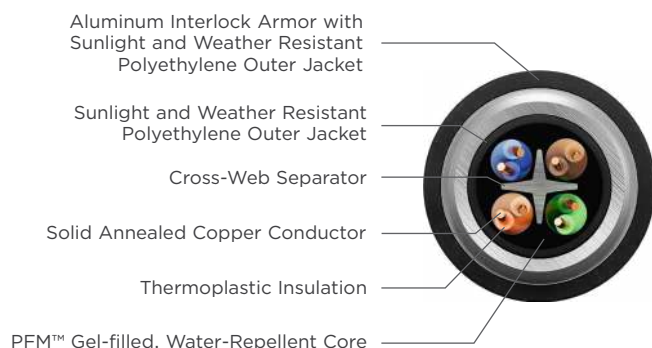


# EnduraGain® OSP Unshielded

Formerly BBD



## SPECIFICATIONS

|                                   |  |
|-----------------------------------|--|
| Pair Count                        | 4  |
| Conductor                         | Solid annealed copper  |
| Insulation                        | Polyolefin   |
| Separator                         | CAT 6A/6: Polyolefin cross-web<br>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<br>CAT 6: 68<br>Cat 5e: 65  |
| Performance Compliance            | ANSI/TIA-568.2-D<br>ANSI/ICEA S-107-704-2012<br>RoHS-compliant/RoHS 2-compliant<br>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<br><b>Tested down to -67°F (-55°C)</b> | Section 7.1: -4°F (-20°C) cold bend test<br>Section 7.2: +14°F (-10°C) cold impact test<br>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     |
|-----|----------|-------------------|-------------|--------------|-----------|--------------------------|--------------------------------|-------------|
| NEW | 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.