

EnduraGain® OSP Shielded Indoor/Outdoor

Halogen-Free CM | Formerly BBDN I/O



Sunlight and Weather Resistant
Halogen-Free, Polyethylene Outer Jacket

Aluminum Tape Shield

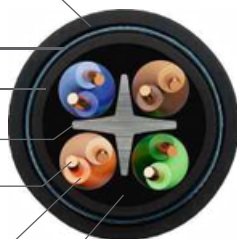
Polyethylene Inner Jacket

Cross-Web Separator

Solid Annealed Copper Conductor

Thermoplastic Insulation

PFM™ Gel-filled, Water-Repellent Core



Specifications

Pair Count	4 Solid annealed copper
Conductor	Polyolefin CAT 6A/6: Polyolefin
Insulation	cross-web Electrically
Separator	continuous 0.008 in
Shield	(0.20 mm) polymer coated smooth aluminum tape shield, applied with an overlap
Dry Water Block	SAP powder
Inner/Outer Jackets	Black, halogen-free, sunlight and weather-resistant polyethylene
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CAT 6A/6: 68
Performance Compliance	ANSI/TIA-568.2-D CSA C22.2 No. 214-08 UL 444 UL 1685 UL 2556 ANSI/ICEA S-107-704-2012 RoHS-compliant/RoHS 2-compliant REACH-compliant
NRTL Programs	UL, c(UL) listed CM

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	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

Product Description

EnduraGain® OSP Shielded Indoor/Outdoor is a CM rated category cable combining Outside Plant (OSP) Broadband features with an indoor application. It is designed to provide an extension of the LAN beyond the premises or in situations where the NEC code requires an OSP-rated cable and can be used inside the building according to NEC CM rated rules. The cable consists 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 jacketed core is covered with dry block and a shield providing exceptional Alien Crosstalk (AXT) performance. The outer jacket is an OSP-grade, black, halogen-free polyethylene for superior sunlight and abrasion resistance. This shielded design is suitable for the following deployments: duct, underground conduit, tower, lashed aerial, open trench or low-risk direct burial.

EnduraGain OSP Shielded Indoor/Outdoor is available in a variety of performances including CAT 6 and CAT 6A.

Applications

- CAT 6A: 10BASE-T through 10GBASE-T Ethernet;
- CAT 6: 10BASE-T through 1000BASE-T
- Power over Ethernet (PoE) - IEEE 802.3bt Type 1 to 4
- ATM and token ring

Features

- Transmission performance characterized to 500 MHz
- Shield
- Dry block between shield and inner jacket
- PFM gel-filled core construction
- OSP-grade black polyethylene jacket
- UL® CM listed

Benefits

- Assures ample overhead for reliable transmission in an OSP-rated cable allowing extension of the premises LAN
- Rugged shield provides protection against EMI/RFI and provides rodent resistance
- Prevents water ingress between shield and inner cable preventing damage to equipment
- Prevents intrusion of moisture and easily wipes clean during installation
- Outside plant rated cable for years of reliable performance
- Allows for CM specific application
- Ideal for indoor/outdoor deployment



Part Numbers and Physical Characteristics

Category	Part Number	Product Type	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package
CAT 6A	04-001-A2	FTP	23 (0.57)	0.39 (9.8)	84 (125)	1,000' Plywood reel
CAT 6	04-001-62	FTP	23 (0.57)	0.39 (9.8)	84 (125)	1,000' Plywood reel

Additional part numbers, constructions and packaging available upon request. UL is a registered trademark of UL LLC.

