

OSP Broadband Category 6A

BBDN6A and BBDG6A

PRODUCT DESCRIPTION

Superior Essex BBDN6A and BBDG6A are Category 6A Outside Plant (OSP) Broadband cables. These cables are 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 four (4) balanced twisted pairs surrounded by Superior Essex PFM™ gel which, not only prevents water ingress and is easy to clean, but will not drip or flow, even in cell tower applications. The cable is sweep-tested out to 500 MHz and includes a cross-web for outstanding internal crosstalk performance. The jacketed core is covered with either an 8 mil aluminum tape shield or corrugated, copper-clad steel armor providing exceptional Alien Crosstalk performance as well as resistance to EMI/RFI. The cable employs DryBlock, a water-swellable material between the shield/armor and the inner jacket, that prevents water from traveling between the shield and the inner cable. The outside jacket is OSP-grade black polyethylene for superior sunlight and abrasion resistance.

APPLICATIONS

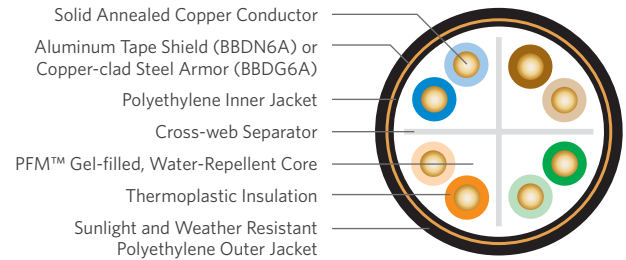
- 10BASE-T through 10GBASE-T Ethernet
- Power over Ethernet (PoE) – IEEE 802.3af
- PoE+ – IEEE 802.3at Type 1 and 2
- ATM and token ring
- BBDN6A: Lashed aerial, underground conduit or low-risk direct burial
- BBDG6A: Direct burial where additional mechanical protection is required

FEATURES

- Transmission performance characterized to 500 MHz
- BBDN6A: 8 mil aluminum tape shield
- BBDG6A: Corrugated, copper-clad steel armor
- Dry block between shield/armor and inner jacket
- PFM gel-filled core construction
- OSP-grade black polyethylene jacket
- ColorTip™ circuit identification system

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
- Rugged shield provides protection against EMI/RFI and provides rodent resistance
- Prevents water ingress between shield in 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
- Easily identifiable conductor mates even in low-light environments



SPECIFICATIONS

Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	23 (0.57)
Insulation	Polyolefin
Separator	Polyolefin cross-web
Shield/Armor	BBDN6A: Electrically continuous 0.008 in (0.20 mm) polymer coated smooth aluminum tape shield, applied with an overlap BBDG6A: Electrically continuous 0.005 in (0.13 mm) corrugated copper-clad steel armor, applied with an overlap
Dry Water Block	BBDN6A: SAP powder BBDG6A: SAP yarn
Jacket	Black, sunlight and weather resistant polyethylene
Characteristic Impedance (Ohms)	100 ± 15
Nominal Velocity of Propagation (%)	68
Performance Compliance	ANSI/TIA-568-C.2 ANSI/ICEA S-107-704-2006 Article 800, NEC (NFPA 70) RoHS-compliant

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Product Code	Shield/Armor	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package
04-001-A4	BBDN6A	Coated aluminum tape	0.39 (9.8)	72 (107)	1,000' plywood reel
04-002-A4	BBDN6A	Coated aluminum tape	0.39 (9.8)	72 (107)	2,500' plywood reel
04-003-A4	BBDN6A	Coated aluminum tape	0.39 (9.8)	72 (107)	5,000' plywood reel
04-601-A4	BBDN6A	Coated aluminum tape	0.39 (9.8)	72 (107)	Cut to length
04-001-A5	BBDG6A	Copper-clad steel	0.39 (9.8)	85 (127)	1,000' plywood reel
04-002-A5	BBDG6A	Copper-clad steel	0.39 (9.8)	85 (127)	2,500' plywood reel
04-003-A5	BBDG6A	Copper-clad steel	0.39 (9.8)	85 (127)	5,000' plywood reel
04-601-A5	BBDG6A	Copper-clad steel	0.39 (9.8)	85 (127)	Cut to length



TECHNICAL GUIDELINE

Special connectivity is required for these cable designs. Refer to the "OSP Broadband Installation Guidelines" on our site for more information: SuperiorEssex.com/TechTip.aspx