

# OSP Broadband Category 5e

BBD<sub>e</sub>, BBD<sub>N</sub>e and BBD<sub>G</sub>e

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OSP COMPOSITE

CENTRAL OFFICE COPPER

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TECHNICAL INFO

## PRODUCT DESCRIPTION

BBD Category 5e Outside Plant (OSP) cables are designed to provide extension of the LAN beyond the premises. The core is filled with PFM™ thixotropic filling compound to prevent water ingress. PFM gel will not drip even in cell tower applications at elevated temperatures. A variety of constructions are available to suit multiple environmental needs. Shielded designs feature dry water block between the shield and the core jacket to prevent water ingress. All designs are suitable for buried applications.

## APPLICATIONS

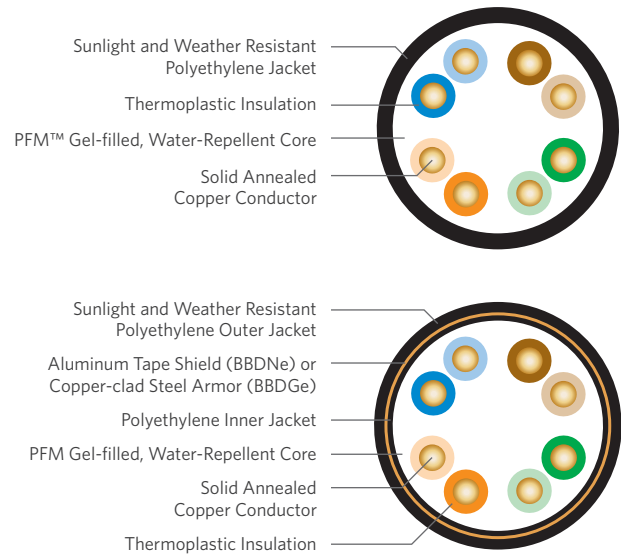
- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) - IEEE 802.3af
- PoE+ - IEEE 802.3at Type 1 and 2
- ATM and token ring
- WiMAX cell towers
- BBD<sub>N</sub>e: Lashed aerial, underground conduit or low-risk direct burial
- BBD<sub>G</sub>e: Direct burial where additional mechanical protection is required

## FEATURES

- Transmission performance characterized to 350 MHz
- BBD<sub>e</sub>: Unshielded
- BBD<sub>N</sub>e: Aluminum tape shield
- BBD<sub>G</sub>e: 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

- OSP rated cable connections for work area and backbone LAN
- Small, robust design for unshielded applications
- Protection against EMI/RFI
- 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)	24 (0.51)
Filling Compound	PFM™ thixotropic gel
Insulation	Solid polyolefin
Shield/Armor	BBD <sub>e</sub> : Unshielded BBD <sub>N</sub> e: Electrically continuous 0.008 in (0.20 mm) polymer coated smooth aluminum tape, applied with an overlap BBD <sub>G</sub> e: Electrically continuous 0.005 in (0.13 mm) corrugated copper-clad steel armor, applied with an overlap
Dry Water Block	BBD <sub>N</sub> e: SAP powder BBD <sub>G</sub> e: SAP yarn
Jacket	Black, sunlight and weather resistant polyethylene
Characteristic Impedance (Ohms)	100 ± 15
Nominal Velocity of Propagation (%)	62
Performance Compliance	ANSI/TIA-568-C.2 ANSI/ICEA S-107-704-2006 Article 800, NEC (NFPA 70) RoHS-compliant



## 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](http://SuperiorEssex.com/TechTip.aspx)

## PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Product Code	Shield/Armor	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package
04-001-58	BBD <sub>e</sub>	None	0.26 (6.6)	30 (45)	1,000' Plywood reel
04-002-58	BBD <sub>e</sub>	None	0.26 (6.6)	30 (45)	2,500' Plywood reel
04-003-58	BBD <sub>e</sub>	None	0.26 (6.6)	30 (45)	5,000' Plywood reel
04-601-58	BBD <sub>e</sub>	None	0.26 (6.6)	30 (45)	Cut to length
04-001-54	BBD <sub>N</sub> e	Coated aluminum tape	0.36 (9.1)	55 (82)	1,000' Plywood reel
04-002-54	BBD <sub>N</sub> e	Coated aluminum tape	0.36 (9.1)	55 (82)	2,500' Plywood reel
04-003-54	BBD <sub>N</sub> e	Coated aluminum tape	0.36 (9.1)	55 (82)	5,000' Plywood reel
04-601-54	BBD <sub>N</sub> e	Coated aluminum tape	0.36 (9.1)	55 (82)	Cut to length
04-001-55	BBD <sub>G</sub> e	Copper-clad steel	0.36 (9.1)	64 (95)	1,000' Plywood reel
04-002-55	BBD <sub>G</sub> e	Copper-clad steel	0.36 (9.1)	64 (95)	2,500' Plywood reel
04-003-55	BBD <sub>G</sub> e	Copper-clad steel	0.36 (9.1)	64 (95)	5,000' Plywood reel
04-601-55	BBD <sub>G</sub> e	Copper-clad steel	0.36 (9.1)	64 (95)	Cut to length