

## Superior Essex Announces the Availability of CAT 5e BBDe, BBDNe, and BBDGe with PFM Gel and Dry Water Blocking Over Shields.



The BBDe series of Outside Plant (OSP) CAT 5e products now have two new features: a) dry water blocking agent outside of the inner jacket (for BBDNe and BBDGe); and b) PFM gel in place of ETPR as a filling compound in the core for all three series.

These features make the BBDe series cables ideally suited for cell tower/WiMax tower applications where there are concerns about the filling compound or flooding compound potentially dripping.

These cables also fully comply with the performance requirements of TIA 568-C.2, which is something that some other OSP CAT 5e cables do not guarantee.

Features	Benefits
<b>Transmission performance characterized to 350 MHz for CAT 5e BBDe Series</b>	Assures ample overhead for reliable transmission in an outside plant rated cable allowing extension of the premises LAN
<b>Aluminum Shield in the CAT 5e BBDNe</b>	Provides protection against EMI/RFI
<b>Corrugated Copper Clad Steel Shield in CAT 5e BBDGe</b>	Provides both EMI/RFI and rodent protection
<b>Dry Block between shield and inner jacket</b>	Prevents water ingress between shield in inner cable preventing damage to equipment
<b>Fully filled core construction with PFM Gel</b>	Prevents intrusion of water and moisture that can degrade transmission performance Will not drip or flow even in cell tower applications
<b>OSP Rated Sunlight Resistant Black jacket</b>	Outside plant rated cable for years of reliable performance

Note: during the transition period, customers may receive product with ETPR until inventory of this product is depleted.

## 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. All designs are suitable for buried applications.

## Applications

- 10BASE-T through 1000BASE-T ethernet
- ATM and token ring
- WiMAX cell towers
- BBDNE: Lashed aerial, underground conduit or low-risk direct burial
- BBDGE: Direct burial where additional mechanical protection is required

## Features

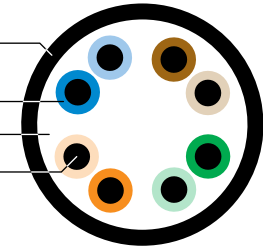
- CAT 5e transmission performance characterized to 350 MHz
- Metallic shield tapes (Aluminum for BBDNE and Copper-clad armor for BBDGE)
- Fully filled with PFM™ thixotropic gel
- UV/Sunlight resistant black jacket
- BBDE: Unshielded
- BBDNE: Aluminum tape shield
- BBDGE: Copper-clad armor shield
- ColorTip™ circuit identification system
- Dry water block between shield and core

## Benefits

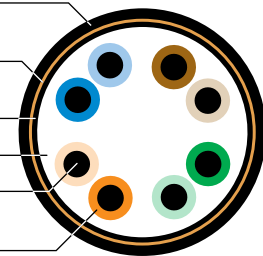
- OSP rated cable connections for work area and backbone LAN
- Provides additional protection against EMI/RFI and rodents
- Prevents intrusion of moisture that can degrade transmission quality
- Easy to clean and non-dripping
- Confidence that cable will last even with long-term exposure to direct sunlight
- Small, robust design for unshielded applications
- Protection against EMI/RFI
- Protection against EMI/RFI and provides rodent resistance
- Easily identifiable conductor mates even in low light environments
- Prevents water ingress, yet easy to clean



Sunlight and Weather Resistant Polyethylene Jacket  
Thermoplastic Insulation  
Fully Filled Water Repellent Core  
Solid Annealed Copper Conductor



Sunlight and Weather Resistant Polyethylene Outer Jacket  
Aluminum Tape Shield (BBDNE) or Copper-clad Armor Shield (BBDGE)  
Polyethylene Inner Jacket  
Fully Filled Water Repellent Core  
Solid Annealed Copper Conductor  
Thermoplastic Insulation



## Specifications

<b>Pair Count</b>	4
<b>Conductor</b>	Solid annealed copper
<b>AWG (mm)</b>	24 (0.51)
<b>Filling Compound</b>	PFM™ thixotropic gel
<b>Insulation</b>	Solid polyolefin
<b>Shield</b>	BBDE: Unshielded BBDNE: Electrically continuous 0.008 in (0.20 mm) polymer coated smooth aluminum tape, applied with an overlap BBDGE: Electrically continuous 0.005 in (0.13 mm) corrugated copper-clad armor, applied with an overlap shield and flooded with a flooding compound
<b>Jacket</b>	Black, sunlight and weather resistant polyethylene
<b>Characteristic Impedance (Ohms)</b>	100 ± 15
<b>Nominal Velocity of Propagation (%)</b>	62
<b>Standards Compliance</b>	ANSI/TIA/EIA-568-B.2 ANSI/TIA-568-C.2 ANSI/ICEA S-107-704-2006 RoHS-compliant

## Part Numbers and Physical Characteristics

Part Number	Product Code	Shield	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package
04-001-58	BBDE	None	0.26 (6.6)	30 (45)	1,000' Plywood Reel
04-002-58	BBDE	None	0.26 (6.6)	30 (45)	2,500' Plywood Reel
04-003-58	BBDE	None	0.26 (6.6)	30 (45)	5,000' Plywood Reel
04-601-58	BBDE	None	0.26 (6.6)	30 (45)	Cut to Length
04-001-54	BBDNE	Coated Aluminum	0.36 (9.1)	55 (82)	1,000' Plywood Reel
04-002-54	BBDNE	Coated Aluminum	0.36 (9.1)	55 (82)	2,500' Plywood Reel
04-003-54	BBDNE	Coated Aluminum	0.36 (9.1)	55 (82)	5,000' Plywood Reel
04-601-54	BBDNE	Coated Aluminum	0.36 (9.1)	55 (82)	Cut to Length
04-001-55	BBDGE	Copper Clad	0.36 (9.1)	64 (95)	1,000' Plywood Reel
04-002-55	BBDGE	Copper Clad	0.36 (9.1)	64 (95)	2,500' Plywood Reel
04-003-55	BBDGE	Copper Clad	0.36 (9.1)	64 (95)	5,000' Plywood Reel
04-601-55	BBDGE	Copper Clad	0.36 (9.1)	64 (95)	Cut to Length