

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

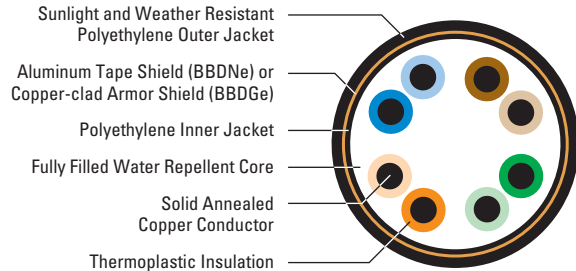
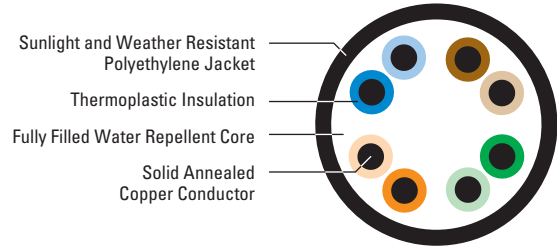
- 10BASE-T through 1000BASE-T ethernet
- ATM and token ring
- WiMAX cell towers
- BBDNe: Lashed aerial, underground conduit or low-risk direct burial
- BBDGe: Direct burial where additional mechanical protection is required

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
- BBDNe: 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



Specifications	
Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	24 (0.51)
Filling Compound	PFM™ thixotropic gel
Insulation	Solid polyolefin
Shield	BBDNe: 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
Dry Water Block	BBDNe: SAP powder BBDGe: 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 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	BBDNe	None	0.26 (6.6)	30 (45)	1,000' Plywood Reel
04-002-58	BBDNe	None	0.26 (6.6)	30 (45)	2,500' Plywood Reel
04-003-58	BBDNe	None	0.26 (6.6)	30 (45)	5,000' Plywood Reel
04-601-58	BBDNe	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