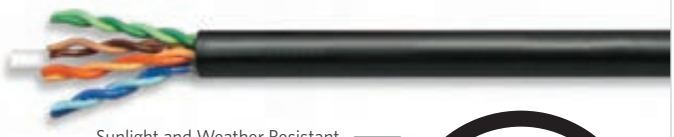
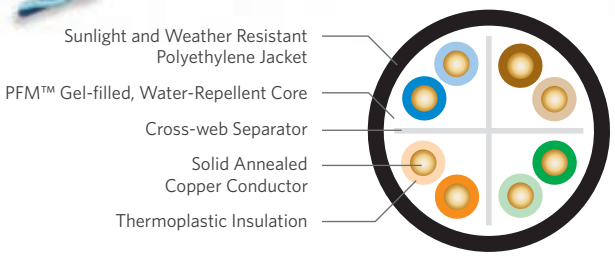
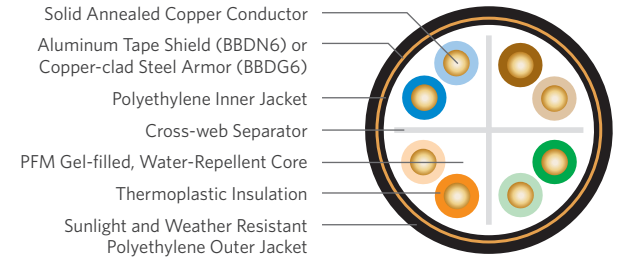
OSP Broadband Category 6

BBD6, BBDN6 and BBDG6







SPECIFICATIONS

Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	23 (0.57)
Insulation	Polyolefin
Separator	Polyolefin cross-web
Shield/Armor	BBD6: Unshielded BBDN6: Electrically continuous 0.008 in (0.20 mm) polymer coated smooth aluminum tape, applied with an overlap BBDG6: Electrically continuous 0.005 in (0.13 mm corrugated copper-clad steel armor, applied with an overlap
Dry Water Block	BBDN6: SAP powder BBDG6: 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 RoHS-compliant REACH-compliant

PRODUCT DESCRIPTION

BBD6 is an Outside Plant (OSP) unshielded Broadband Category 6 cable. BBD6 has guaranteed transmission performance out to 250 MHz. The cable consists of a core of four balanced twisted pairs held in place by a cross-web separator and surrounded by a filling compound to prevent water ingress. The core is jacketed with a sunlight and abrasion resistant black polyethylene outer jacket. Shielded designs feature dry water block between the shield and the core jacket to prevent water ingress. Shielded designs are suitable for direct buried applications; the unshielded design requires a duct or conduit.

APPLICATIONS

- 10BASE-T through 10GBASE-T Ethernet
- IEEE 802.3af, Power over Ethernet (PoE)
- IEEE 802.3at Type 1 and 2, PoE+
- ATM and token ring
- WiMAX cell towers
- BBDN6: Lashed aerial, underground conduit or low-risk direct burial
- BBDG6: Direct burial where additional mechanical protection is required

FEATURES	BENEFITS
• Transmission performance characterized to 500 MHz	• OSP rated cable provides connections for work area and extension of the LAN
• BBD6: Unshielded	• Small, robust design for unshielded applications
• BBDN6: Aluminum tape shield	• Protection against EMI/RFI
• BBDG6: Copper-clad steel armor	• Protection against EMI/RFI and provides rodent resistance
• Dry block between shield/armor and inner jacket	• Prevents water ingress between shield in inner cable preventing damage to equipment
• PFM™ gel-filled core construction	• Prevents intrusion of moisture and easily wipes clean during installation
• OSP-grade black polyethylene jacket	• Outside plant rated cable for years of reliable performance
• ColorTip™ circuit identification system	• Easily identifiable conductor mates even in low-light environments

TECHNICAL GUIDELINE

Special connectivity is required for these cable designs. Refer to the "Resources" section on our site for the Technical Guideline, "OSP Broadband Installation Guidelines," for more information.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Product Code	Shield/Armor	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package
04-001-68	BBD6	None	0.30 (7.6)	39 (58)	1,000' Plywood reel
04-002-68	BBD6	None	0.30 (7.6)	39 (58)	2,500' Plywood reel
04-003-68	BBD6	None	0.30 (7.6)	39 (58)	5,000' Plywood reel
04-601-68	BBD6	None	0.30 (7.6)	39 (58)	Cut to length
04-001-64	BBDN6	Coated aluminum tape	0.39 (9.8)	72 (107)	1,000' Plywood reel
04-002-64	BBDN6	Coated aluminum tape	0.39 (9.8)	72 (107)	2,500' Plywood reel
04-003-64	BBDN6	Coated aluminum tape	0.39 (9.8)	72 (107)	5,000' Plywood reel
04-601-64	BBDN6	Coated aluminum tape	0.39 (9.8)	72 (107)	Cut to length
04-001-65	BBDG6	Copper-clad steel	0.39 (9.8)	85 (127)	1,000' Plywood reel
04-002-65	BBDG6	Copper-clad steel	0.39 (9.8)	85 (127)	2,500' Plywood reel
04-003-65	BBDG6	Copper-clad steel	0.39 (9.8)	85 (127)	5,000' Plywood reel
04-601-65	BBDG6	Copper-Clad Steel	0.39 (9.8)	85 (127)	Cut to Length

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RoHS
Rev 8/13 Ed 12.3