OSP Broadband Category 5e

Product Description

BBD Category 5e OSP cables are designed to provide extension of the LAN beyond the premises. A variety of constructions are available to suit multiple environmental needs.

Features

- Category 5e Transmission performance characterized to 100MHz
- Metallic shield tapes
  (Aluminum for BBDNE and Copper-clad armor for BBDGE)
- Fully filled constructions
- UV/Sunlight resistant black jacket

BBDE
- Unshielded
- Small, robust design for unshielded applications

BBDNE
- Aluminum Tape Shield
- Protection against EMI/RFI

BBDGE
- Copper-clad armor shield
- Protection against EMI/RFI and provides rodent resistance

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
- Confidence that cable will last even with long-term exposure
  to direct sunlight

Applications

- 10BASE-T through 1000BASE-T Ethernet
- ATM and Token Ring

Part Numbers and Physical Characteristics

Name	Part #	Pair Count	AWG (mm)	Nom. Dia. inches (mm)	Approx. Weight lbs/kft (kg/km)	Package
BBDE	04-001-58	4	24 (0.5)	0.25 (6.6)	28 (42)	1000′ Reel
	04-002-58	4	24 (0.5)	0.25 (6.6)	28 (42)	2500′ Reel
	04-003-58	4	24 (0.5)	0.25 (6.6)	28 (42)	5000′ Reel
	04-601-58	4	24 (0.5)	0.25 (6.6)	28 (42)	Cut to length
BBDNE	04-001-54	4	24 (0.5)	0.31 (8.0)	48 (71)	1000′ Reel
	04-002-54	4	24 (0.5)	0.31 (8.0)	48 (71)	2500′ Reel
	04-003-54	4	24 (0.5)	0.31 (8.0)	48 (71)	5000′ Reel
	04-601-54	4	24 (0.5)	0.31 (8.0)	48 (71)	Cut to length
BBDGE	04-001-55	4	24 (0.5)	0.31 (8.0)	62 (92)	1000′ Reel
	04-002-55	4	24 (0.5)	0.31 (8.0)	62 (92)	2500′ Reel
	04-003-55	4	24 (0.5)	0.31 (8.0)	62 (92)	5000′ Reel
	04-601-55	4	24 (0.5)	0.31 (8.0)	62 (92)	Cut to length

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Physical Description

• Conductor/Cable Core: 24 AWG (0.5 mm) Solid Annealed Bare Copper • Insulation: Solid Polyolefin • Core Filling Compound: 80°C ETPR (extended thermoplastic rubber)

• BBDE: No shield • Black polyethylene outer jacket

• BBDNE: Inner polyethylene jacket • Electrically continuous 0.008 in (0.2 mm) polymer coated smooth aluminum tape, applied with an overlap, black polyethylene outer jacket

• BBDGE: Inner polyethylene jacket • Electrically continuous 0.005 in (0.13 mm) corrugated copper-clad armor, applied with an overlap shield flooded with a flooding compound • Black polyethylene outer jacket

Electrical Performance

Frequency MHz	Attenuation (dB/100m) @ 20°C Maximum	NEXT (dB/100m) Minimum	ACR (dB/100m) Minimum	PS-NEXT (dB/100m) Minimum
0.772	1.8	67.0	62.2	64.0
1	2.0	65.3	60.0	62.3
4	4.1	56.3	48.9	53.3
8	5.8	51.8	42.2	48.8
10	6.5	50.3	40.5	47.3
16	8.2	47.3	35.8	44.2
20	9.3	45.8	32.7	42.8
25	10.4	44.3	30.6	41.3
31.25	11.7	42.9	27.3	39.9
62.5	17.0	38.4	18.0	35.4
100	22.0	35.3	10.0	32.0

Frequency MHz	PS-ACR (dB/100m) Minimum	Return Loss (dB/100m) Minimum	ELFEXT (dB/100m) Minimum	PS-ELFEXT (dB/100m) Minimum
0.772	62.2	23.0	66.0	63.0
1	60.3	23.0	63.8	60.8
4	49.2	23.0	51.7	48.7
8	43.0	23.0	45.7	42.7
10	40.8	23.0	43.8	40.8
16	36.0	23.0	39.7	36.7
20	33.5	23.0	37.7	34.7
25	30.9	22.0	35.8	32.8
31.25	28.2	21.5	33.9	30.9
62.5	18.4	18.1	27.8	24.8
100	10.3	16.0	23.8	20.8

Input Impedance (Ohms) Maximum	**Delay Skew (ns/100m)** Maximum	**Velocity of Propagation (%)** Nominal	**DC Resistance (Ohms/100m)** Maximum
100+/-15 @ 1-100MHz	48	62	9.38

Standards Compliance:
ANSI/TIA/EIA 568-B.2, ANSI/ICEA/S-86-634, RoHS Compliant.