

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 BBDE and Copper-clad Steel for BBDGE)
- Water-blocked constructions including fully-filled core and filling between shield and jacket layers

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

Applications

- 10BASE-T through 1000BASE-T Ethernet, ATM and Token Ring
- BBDE - OSP 4-PR Category 5e Unshielded
- BBDE - OSP 4-PR Category 5e Shielded with aluminum tape for protection against EMI/RFI
- BBDGE - OSP 4-PR Category 5e Shielded with copper-clad armor for EMI/RFI and rodent protection

Part Numbers and Physical Characteristics

Part #	Name	Pair Count	Gauge	Jacket Color	Nom. Dia.	Nom. Cable Weight	Packaging
04-001-58	BBDE	4.0	24 AWG (0.5 mm)	black	0.25 in (6.6 mm)	28 lbs/kft (42 kg/km)	1000' Reel
04-002-58	BBDE	4.0	24 AWG (0.5 mm)	black	0.25 in (6.6 mm)	28 lbs/kft (42 kg/km)	2500' Reel
04-003-58	BBDE	4.0	24 AWG (0.5 mm)	black	0.25 in (6.6 mm)	28 lbs/kft (42 kg/km)	5000' Reel
04-601-58	BBDE	4.0	24 AWG (0.5 mm)	black	0.25 in (6.6 mm)	28 lbs/kft (42 kg/km)	Cut to length
04-001-54	BBDNE	4.0	24 AWG (0.5 mm)	black	0.31 in (8 mm)	48 lbs/kft (71 kg/km)	1000' Reel
04-002-54	BBDNE	4.0	24 AWG (0.5 mm)	black	0.31 in (8 mm)	48 lbs/kft (71 kg/km)	2500' Reel
04-003-54	BBDNE	4.0	24 AWG (0.5 mm)	black	0.31 in (8 mm)	48 lbs/kft (71 kg/km)	5000' Reel
04-601-54	BBDNE	4.0	24 AWG (0.5 mm)	black	0.31 in (8 mm)	48 lbs/kft (71 kg/km)	Cut to length
04-001-55	BBDGE	4.0	24 AWG (0.5 mm)	black	0.33 in (8.4 mm)	62 lbs/kft (92 kg/km)	1000' Reel
04-002-55	BBDGE	4.0	24 AWG (0.5 mm)	black	0.33 in (8.4 mm)	62 lbs/kft (92 kg/km)	2500' Reel
04-003-55	BBDGE	4.0	24 AWG (0.5 mm)	black	0.33 in (8.4 mm)	62 lbs/kft (92 kg/km)	5000' Reel
04-601-55	BBDGE	4.0	24 AWG (0.5 mm)	black	0.33 in (8.4 mm)	62 lbs/kft (92 kg/km)	Cut to length



Specifications OSP Broadband Category 5e

Physical Description

- Conductor/Cable Core: 24 AWG (0.5 mm) Solid Annealed Bare Copper, Insulation: Solid Polyolefin, Core Flooded with Filling Compound: 80°C ETPR (extended thermoplastic rubber)
- BBDE: no shield • black polyethylene outer jacket
- BBDE: inner polyethylene jacket • electrically continuous 0.008 in (0.2 mm) polymer coated smooth aluminum tape, applied with an overlap
- BBDE: inner polyethylene jacket • electrically continuous 0.005 in (0.13 mm) corrugated copper-clad steel, applied with an overlap • shield flooded with a flooding compound • black polyethylene outer jacket

Electrical

Frequency MHz	Max Attenuation (dB/100m) @ 20°C	Min NEXT (dB/100m)	ACR (dB/100m)	Min PS-NEXT (dB/100m)
0.772	1.8	67	62.2	64
1	2	65.3	60	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	38.4	18	35.4
100	22	35.3	10	32

Frequency MHz	PS-ACR (dB/100m)	RL (dB/100m)	Min ELFEXT (dB/100m)	Min PS-ELFEXT (dB/100m)
0.772	62.2	23	66	63
1	60.3	23	63.8	60.8
4	49.2	23	51.7	48.7
8	43	23	45.7	42.7
10	40.8	23	43.8	40.8
16	36	23	39.7	36.7
20	33.5	23	37.7	34.7
25	30.9	22	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	23.8	20.8



Impedance (Ohms) guaranteed	Delay Skew (ns/100m) maximum	Velocity of Propagation (%) nominal	DC Resistance (Ohms/100m) @ 20°C maximum
100+/-15 @ 1-100MHz	48	62	9.38

Applicable Standards:
TIA/EIA 568-B.2 (Annex N), ANSI/ICEA/S-84-608