



CAT 8.2 40G CMR Indoor/Outdoor S/FTP Solid Dual Shielded Bulk Cable

Our Category 8.2 indoor/outdoor 40G (S/FTP) high performance data communications cable is ideal for a large data driven network installation. This cable is designed for short runs indoor or outdoor up to 30 Meters in length. Our Category 8.2 cable has 4 pairs of 23AWG solid bare copper conductors, individually shielded pairs with an overall TC braiding. This cable has a CMR Riser fire rating and supplied on a 500ft wooden spool, which is marked in descending order so you always know how much cable is left.

Applications

- 40GBASE-T
- Rackcenters Topologies Supported:
- Top-of-Rack (ToR)
- End-of-Row (EoR)
- Middle-of-Row (MoR)

Compliance

- CAT8 Version 8.2
- ISO/IEC 11801;IEC61156, YD/T1019
- TIA/EIA-568-C.2-1 Category 8.2
- RoHS Compliance For The Requirement Of European Union Issued Directive 2002/95/EC

Physical Characteristics

- Conductor Size: 23 AWG
- Conductor Material: Solid Bare Copper
- Insulation Material: Skin-Foam-Skin Polyethylene
- Insulation Diameter: 1.45 mm
- Number Of Conductors: 8 Conductors / 4 Pairs
- Inner Pair Shielding: AL/Mylar
- Outer Shield Material: TC Braiding
- TC Braiding Coverage: 60%
- Outer Jacket Diameter: 9.0mm
- Outer Jacket Rip Cord: Yes
- Outer Jacket UV Resistant: Yes

CAT 8.2



Available Jacket Colors

- Blue Item# C8SS-1731BL

Cable Features

- Meets Or Exceeds CAT 8.2 T568-C.2-1 Standards
- Outer Jacket is CMR Fire Rated
- Easy To Use Wooden Spool
- Extra Headroom Provides Room For Growth
- Low Attenuation And Power-Sum Crosstalk

Construction Facts

- Cable Has High Density Polyethylene Insulation
- AL Shielding Is Used To Help Eliminate Interference
- Longitudinal Rip Cord For Easy Jacket Opening

Cable Put-Ups:

Cable is supplied in 500ft increments on a wooden spool.

CAT 8.2 40Gig Solid Bulk Cable Electrical Specifications

Frequency MHz (Maximum)	ATT dB/30 m (98.4 ft.) (Maximum)	ACRF dB/30 m (98.4 ft.) (Maximum)	PSACRF dB/30 m (98.4 ft.) (Maximum)	NEXT dB/30 m (98.4 ft.) (Minimum)	PS-NEXT dB/30 m (98.4 ft.) (Minimum)	ELFEXT dB/30 m (98.4 ft.) (Minimum)	PS-ELFEXT dB/30 m (98.4 ft.) (Minimum)	Return Loss dB (Minimum)
1.0	2.0	75.0	76.0	75.3	72.3	N/A	N/A	20.0
4.0	2.0	67.0	64.0	66.3	63.3	N/A	N/A	23.0
8.0	2.0	60.9	57.9	61.8	58.8	N/A	N/A	24.5
10.0	2.0	59.0	56.0	60.3	57.3	N/A	N/A	25.0
16.0	2.2	54.9	51.9	57.2	54.2	N/A	N/A	25.0
20.0	2.5	53.0	50.0	55.8	52.8	N/A	N/A	25.0
25	2.8	51.0	48.0	54.3	51.3	N/A	N/A	25.0
31.25	3.1	49.1	46.1	52.9	49.9	N/A	N/A	25.0
62.5	4.4	43.1	40.1	48.4	45.4	N/A	N/A	23.6
100	5.6	39.0	36.0	45.3	42.3	N/A	N/A	22.2
200	7.9	33.0	30.0	40.8	37.8	N/A	N/A	20.1
250	8.9	31.0	28.0	39.3	36.3	N/A	N/A	19.4
300	9.8	29.5	26.5	38.1	35.1	N/A	N/A	18.9
400	11.4	27.0	24.0	36.3	33.3	N/A	N/A	18.0
500	12.8	25.0	22.0	34.8	31.8	N/A	N/A	17.3

PrimusCable.com - (951) 824-1571



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CAT 8.2 40Gig Solid Bulk Cable Electrical Specifications

Frequency MHz (Maximum)	ATT dB/30 m (98.4 ft.) (Maximum)	ACRF dB/30 m (98.4 ft.) (Maximum)	DELAY ns/30 m (98.4 ft.) (Minimum)	NEXT dB/30 m (98.4 ft.) (Minimum)	PS-NEXT dB/30 m (98.4 ft.) (Minimum)	ELFEXT dB/30 m (98.4 ft.) (Minimum)	PS-ELFEXT dB/30 m (98.4 ft.) (Minimum)	Return Loss dB (Minimum)
600	14.1	23.4	20.4	33.6	30.6	N/A	N/A	16.8
1000	18.6	19.0	16.0	30.3	27.3	N/A	N/A	15.2
1500	23.2	15.5	12.5	27.7	24.7	N/A	N/A	14.0
2000	27.2	13.0	10.0	25.8	22.8	N/A	N/A	13.1

Pair Color Code Chart

- Pair 1 — White/Blue Stripe & Blue
- Pair 2 — White/Orange Stripe & Orange
- Pair 3 — White/Green Stripe & Green
- Pair 4 — White/Brown Stripe & Brown

Mechanical Characteristics

- Installation Temperature Range: 0°C-60°C
- Operating Temperature Range: -20°C-75°C
- Storage Temperature Range: -20°C-75°C
- Bulk Cable Weight: 37 lbs./ 500FT
- Max. Recommended Pulling Tension: 400N
- Min. Bend Radius/Minor Axis: 10xOD
- Min. Bend/Installation: 8xOD
- Test Object: Jacket
- Before Tensile Strength: ≥10.0 Mpa
 - Aging Elongation: ≥125%
 - Aging Condition: 100°C x 24hrs x 7Days
- After Tensile Strength: ≥8.0
 - Aging Elongation: ≥100%
 - Cold Bend: No Visible Cracks (-20°±2°x4h)

Electrical Characteristics

- Unbalanced to Ground Capacitance Max: 99 (pF/30m)
- Nominal Velocity of Propagation: 78%
- Maximum Delay: N/A
- Maximum Delay Skew: N/A
- Maximum Conductor DC Resistance: 67.9 (20°C ohmm/km)
- Maximum Operating Voltage - UL: N/A
- Maximum DCR Unbalanced: 5% (@ 20°C)
- Attenuation (Maximum)
 - 14.1dB/30m (98.4 ft.) @ 600MHz
 - 27.2dB/30m (98.4 ft.) @ 2000MHz
- NEXT (Minimum)
 - 33.6dB/30m (98.4 ft.) @ 600MHz
 - 25.8dB/30m (98.4 ft.) @ 2000MHz
- Return Loss (Minimum)
 - 16.8dB/30m (98.4 ft.) @ 600MHz
 - 13.1dB/30m (98.4 ft.) @ 2000MHz

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