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CABLES

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Cat7 Shielded Solid Outdoor PVC Cable

Part No. 85-700-150 BK

Our CAT 7 indoor/outdoor 10G (S/FTP) high performance data communications cable has voice, data, video and security capabilities and is ideal for a network installation. This cable is designed for indoor or outdoor type installations. This cable has 4 pairs of 23AWG solid bare copper conductors, Individually shielded pairs with an over all TC braiding, and a LSZH Jacket. This cable is sold in 1000 ft increments on a wooden spool.

Applications

- 10/100/1000Base-T
- 100Base-VG
- 155 Mbps and 622-Mbps ATM
- Other high-performance applications
 - Backbone
 - Floor-to-floor backbone

Compliance

- ISO/IEC 61156-5;EN 50288-4, YD/T1019
- TIA/EIA-568-C.2 category 7
- ETL Verified
- RoHS compliance for the requirement of European Union Issued Directive 2002/95/EC

Physical Characteristics

- Conductor Size: 23AWG
- Conductor Material: Solid Bare Copper
- Insulation Material: Skin-Foam-Skin Polyethylene
- Insulation Diameter: 1.330 ± 0.05mm
- Number of Conductors: 8 Conductors / 4 Pairs
- Inner Pair Shielding: AL/Mylar
- Outer Shield Material: TC Braiding
- Drain Wire: TC 0.45 mm
- Outer Jacket Material: LSZH
- Outer Jacket Diameter: 7.5mm ± 0.5mm
- Outer Jacket Rip Cord: Yes
- Insulation Diameter: 1.330 ± 0.05mm

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: -40~+60
- Operating Temperature Range: -40~+60
- Storage Temperature Range: -30~+60
- Bulk Cable Weight: N/A lbs. / 1000FT
- Max. Recommended Pulling Tension: N/A
- Min. Bend Radius/Minor Axis: N/A
- Min. Bend/Installation: N/A
- Test Object: Jacket
- Test Material: LSZH
- Before Tensile Strength: ≥10.0
 - 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)

Jacket Printing

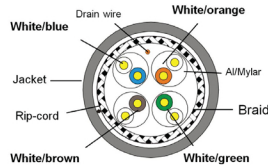
PRIMUM CABLE CAT7 S/FTP 23AWG LSZH INDOOR/
OUTDOOR INSTALLATION ETL VERIFIED TO ANSI/
TIA-568-C.2 (VID ####) #####FT

Sequential foot markers on jacket.

CAT 7



Technical Diagram



Available Jacket Colors

- Black Item# C7OS-114BK

Cable Features

- Tested to 850MHz
- Meets or exceeds CAT 7 T568C.2 standards
- Easy to use wooden spool
- Cable is marked IN descending order so you always know how much cable is left
- Extra headroom provides room for growth
- Low attenuation and power-sum crosstalk

Construction Facts

- The PVC cable has high density polyethylene insulation.
- AL shielding is used to help eliminate any interference.
- Longitudinal rip cord for easy jacket opening

Cable Put-Ups:

- Cable is supplied in 1000ft increments on a wooden spool

Electrical Characteristics

- Unbalanced to Ground Capacitance Max: 330
- Nominal Velocity of Propagation: 74
- Maximum Delay: 535.1 @ 1000MHz (ns/100m)
- Maximum Delay Skew: ≤ 25 (ns/100m)
- Maximum Conductor DC Resistance: 9.5 (@ 20°C OHm/100m)
- Maximum Operating Voltage - UL: 300V RMS
- Maximum DCR Unbalanced: 2% (@ 20°C)
- Attenuation (Maximum)
 - 34.19dB/100m (328.1ft.) @ 300MHz
 - 66.93dB/100m (328.1ft.) @ 1000MHz
- 1.0 - 100MHz Impedance: 100 ± 15Ω
- 100-250MHz Impedance: 100 ± 18Ω
- 250 - 600MHz Impedance: 100 ± 25Ω
- NEXT (Minimum)
 - 65.2dB/100m (328.1ft.) @ 300MHz
 - 57.3dB/100m (328.1ft.) @ 1000MHz
- PS-NEXT (Minimum)
 - 62.2dB/100m (328.1ft.) @ 300MHz
 - 54.4dB/100m (328.1ft.) @ 1000MHz
- Return Loss (Minimum)
 - 17.3dB/100m (328.1ft.) @ 300MHz
 - 13.1dB/100m (328.1ft.) @ 1000MHz

CAT7 10Gig Solid Bulk Cable Electrical Specifications

Frequency MHz (Maximum)	ATT dB/100 m (328 ft.) (Maximum)	ACR dB/100 m (328 ft.) (Maximum)	DELAY ns/100 m (328 ft.) (Minimum)	NEXT dB/100 m (328 ft.) (Minimum)	PS-NEXT dB/100 m (328 ft.) (Minimum)	ELFEXT dB/100 m (328 ft.) (Minimum)	PS-ELFEXT dB/100 m (328 ft.) (Minimum)	Return Loss dB (Minimum)
1	N/A	N/A	570.0	78.0	75.0	78.0	75.0	20.0
4	3.74	N/A	552.0	78.0	75.0	78.0	75.0	23.0
8	5.24	N/A	546.7	78.0	75.0	75.9	72.9	24.5
10	5.86	N/A	545.4	78.0	75.0	74.0	71.0	25.0
16	7.41	N/A	543.0	78.0	75.0	69.9	66.9	25.0
20	8.29	N/A	542.0	78.0	75.0	68.0	65.0	25.0
25	9.29	N/A	541.2	78.0	75.0	66.0	63.0	24.3
31.25	10.41	N/A	540.4	78.0	75.0	64.1	61.1	23.6
62.50	14.88	N/A	538.6	75.5	72.5	58.1	55.1	21.5
100	19.02	N/A	537.6	72.4	69.4	54.0	51.0	20.1
150	23.58	N/A	536.9	69.8	66.8	50.2	47.2	18.9
200	27.47	N/A	536.5	67.9	64.9	48.0	45.0	18.0
250	30.97	N/A	536.3	66.4	63.4	46.0	43.0	17.3
300	34.19	N/A	536.1	65.2	62.2	44.5	41.5	17.3
600	50.10	N/A	535.5	60.7	57.7	38.4	35.4	17.3
700	54.63	N/A	535.4	59.7	56.7	37.1	34.1	14.2
1000	66.93	N/A	535.1	57.3	54.4	34.0	31.0	13.1