

Category 6 SFTP FRLSZH Jacket Cable

Description

APPLICATION

Enhanced performance Category 6 SFTP FRLSZH cable for transmission of high-speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Operates at frequency of 250MHz. This cable well exceeds the requirements of ANSI/TIA-568.2-D and ISO/IEC 11801 std.



Technical data

Construction

Description	Values
Conductor	23 AWG Solid bare Copper
Insulation	High Density Polyethylene
Pairs	2 Insulated conductors twisted together
Separator	Polyolefin
Shielded	Polyster Tape+ Al-Mylar Tape + Braiding
Cable Outer Sheath	FRLSZH (Fire Resistance Low Smoke Zero Halogen)
Cable Diameter	7.5 ± 0.30 mm

Mechanical data

Characteristics	Conditions
Bending Radius	< 4 X Cable Diamete (mm)
Pulling Force	11.5Kgs

Environmental data

Characteristics	Conditions	Values
Temperature range	During installation	-20° to + 75°C
	In service	-20° to + 60°C
Fire Propagation std.	IEC60332-1 and IEC60332-3-22	

Category 6 SFTP FRLSZH Jacket Cable

Electrical properties

Characteristics	Conditions
Characteristic Impedance	100 +/- 15 Ω
Propagation Delay	537.6@100MHz
Conductor Resistance	$\leq 9.38 \Omega / 100m$
Mutual Capacitance	$< 5.6nF/100m$
Resistance Unbalance	5% Max
Capacitance Unbalance	330pF/100m
Delay Skew	$< 45ns/100m$
Velocity of Propagation	69%

Transmission Characteristics

HIGH FREQUENCY ELECTRICAL PARAMETERS						
FREQ (MHz)	ATT (dB/100m) max.	NEXT (dB) min.	PS.NEXT (dB) min.	ACRF (dB@100 m) min.	PS.ACRF (dB@ 100 m) min	Return Loss (dB/100m)
1	2.1	65.0	62.0	63.3	60.3	19
4	4.0	63.0	60.5	51.2	48.2	19
8	5.7	58.2	55.6	45.2	42.2	19
10	6.3	56.6	54.0	43.3	40.3	19
16	8.0	53.2	50.6	39.2	36.2	18
20	9.0	51.6	49.0	37.2	34.2	17.5
25	10.1	50.0	47.3	35.3	32.3	17.0
31.25	11.4	48.4	45.7	33.4	30.4	16.5
62.5	16.5	43.4	40.6	27.3	24.3	14.0
100	21.3	39.9	37.1	23.3	20.3	12.0
200	31.5	34.8	31.9	17.2	14.2	9.0
250	35.9	33.1	30.2	15.3	12.3	8.0

Ordering information

Description	Item number
Category6 4 Pair 23 AWG SFTP FRLSZH Cable Box-305Mtr reel	DNC-C6SCXX-LS305

Insert colour code of jacket in place of XX in part number when ordering:
RD=Red, GY=Grey, BL=Blue, GR=Green, YL=Yellow, WH=White, PP=Purple, OR=Orange, BK=Black