

Category 3 FTP 22AWG Central Office LSZH-HFFR Sheath Cable

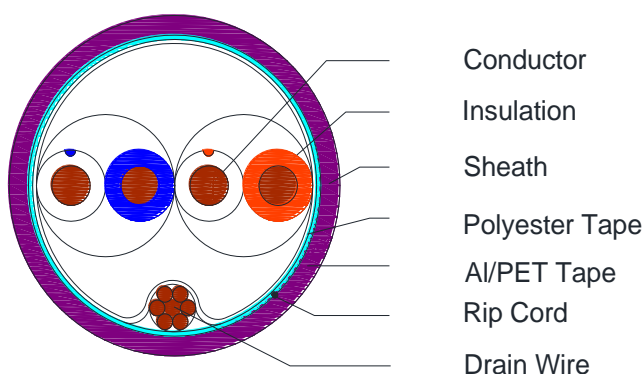


C5644, C5645, C5646, C5647, C5648, C5649, C5650, C5651, C5652, C5653, C5654, C5655, C5656, C5657

Applications

Shielded Multi-Pair cables suitable as internal telephone cable, Category 3 Riser and LAN cable, 10 Base-T and 10 Base-T4.

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid Tinned Copper wire
Insulation	Polyolefin
Twinning	Pair construction
Stranding	Pairs are stranded in units of 10 or 25 pairs
Binder Tape	PET Tape
Screen	Al/PET Tape
Drain Wire	Tinned copper wire
Rip cord	Nylon Yarn
Sheath Material	LSZH-HFFR Standard Colour: Purple
Put up Length	305m

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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Physical Characteristics

Part Number	C5644	C5645	C5646	C5647	C5648	C5649	C5650	C5651	C5652	C5653	C5654	C5655	C5656	C5657
No of pairs	1	2	3	4	6	12	18	20	25	50	75	100	150	200
Conductor size (mm)	22AWG													
Nom. Diameter Insulation (mm)	1.60													
Nom. Radial Thickness Sheath (mm)	0.5	0.5	0.5	0.5	0.5	0.80	1.0	1.0	1.0	1.0	1.1	1.1	1.2	1.2
Nom. Overall Diameter (mm)	4.3	7.0	7.5	8.2	9.7	13.9	16.8	17.3	20.2	32.0	40.5	42.7	52.7	57.7
Operating Temperature range(°C)	-15/+70													
Max. Pulling Tension (N)	25	37	100	105	112	220	300	370	460	930	1380	1860	2790	3720
Min. Bend Radius (install) (mm)	43	70	75	82	97	139	168	173	202	320	405	427	527	577
Nominal Cable Weight (kg/km)	20.8	35.6	46.9	57.7	79.3	159	236	261	320	600	881	1120	1661	2145

Electrical Characteristics at 20°C (1)

Maximum Conductor Resistance (Ω/km)	Maximum Mutual Capacitance (pF/m)	Nominal Capacitance Unbalance (pF/100m)	Nominal Velocity Propagation (%)	Maximum Time Delay (ns)	Minimum Insulation Resistance (MΩ*km)	Max. Operating Voltage (Vrms)
57.4	66	330	65	45	10000	300

Electrical Characteristics at 20°C (2)

Frequency	Maximum Attenuation	Maximum NEXT	Minimum Return Loss	Impedance
1	2.1	41.3	12.0	100 ± 15
4	4.5	32.3	12.0	100 ± 15
8	6.8	27.8	12.0	100 ± 15
10	7.8	26.3	12.0	100 ± 15
16	10.6	23.3	10.0	100 ± 15

Cable Make-Up

Part Number	C5644	C5645	C5646	C5647	C5648	C5649	C5650	C5651	C5652	C5653	C5654	C5655	C5656	C5657
No of pairs	1	2	3	4	6	12	18	20	25	50	75	100	150	200
Number of pairs per unit									25	2*13 + 2*12	25	25	25	25
Number of units in the centre									1	4	3	4	1	1
Number of units in the 1e layer													5	7

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Pair Colour Code

Pair No.	Colours	Pair No.	Colours	Pair No.	Colours
1	WHITE / Blue + BLUE	11	BLACK / Blue + BLUE	21	PURPLE / Blue + BLUE
2	WHITE / Orange + ORANGE	12	BLACK / Orange + ORANGE	22	PURPLE / Orange + ORANGE
3	WHITE / Green + GREEN	13	BLACK / Green + GREEN	23	PURPLE / Green + GREEN
4	WHITE / Brown + BROWN	14	BLACK / Brown + BROWN	24	PURPLE / Brown + BROWN
5	WHITE / Grey + GREY	15	BLACK / Grey + GREY	25	PURPLE / Grey + GREY
6	RED / Blue + BLUE	16	YELLOW / Blue + BLUE		
7	RED / Orange + ORANGE	17	YELLOW / Orange + ORANGE		
8	RED / Green + GREEN	18	YELLOW / Green + GREEN		
9	RED / Brown + BROWN	19	YELLOW / Brown + BROWN		
10	RED / Grey + GREY	20	YELLOW / Grey + GREY		

Pair Color for 50 pair cable: 13pair units as pair No's 1 to 13, 12pair units as pairs No's 14 to 25

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No of pairs	1	2	3	4	6	12	18	20	25	50	75	100	150	200
Binder colours centre									Blue	Blue Orange Green Brown	Blue Orange Green	Blue Orange Green Brown	Blue	Blue
Binder colours first layer													Orange Green Brown Grey White	Orange Green Brown Grey White Red yellow

Reference Standards

ISO 11801: Category 3	IEC 60654-1&-2
TIA/EIA 568-C2: Category 3	IEC 61034
EN 50290-2	IEC 60332-1
RoHS directives	