

LIHH FE180 Cable
0.50mm² to 2.50mm²
LSZH-HFFR Sheath

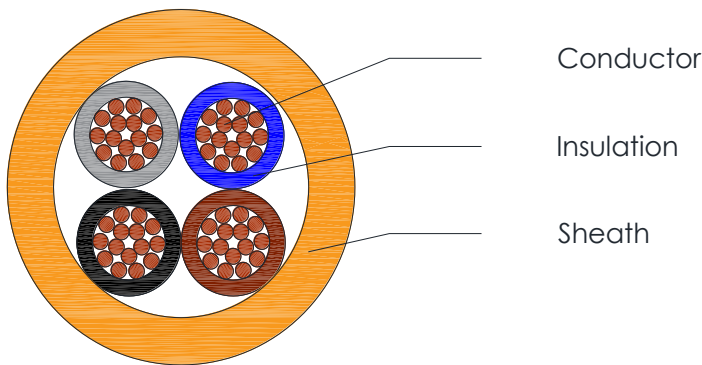


C15113 TO C15179

Applications

These cables are used in fire alarm and security systems, which continue functioning during an instance of fire. (They are used at places where a lot of people can be found such as subways, tunnels, shopping centers, hospitals, airports, hotels, residential buildings, industrial facilities etc.) This type of cables is halogen-free, has flame-retardant and low smoke density.

Cross Section Drawing



Design

Unit	Properties
Conductor	Stranded bare copper wire
Insulation	Silicone Rubber Insulation colour: Blue, Brown, Black, Grey, Green/Yellow, Above 5C Black with white numbering
Cabling	Cores cabled together
Outer Sheath Material	LSZH-HFFR Standard Colour: Orange
Standard 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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Electrical Characteristics at 20°C

Cross Section (mm ²)	Conductor Loop Resistance (Ω /km)	Min. Insulation Resistance (MΩ *km)	Mutual Capacity (nF/km)	Operating Voltage (V)	Test Voltage (V)	Bedding Radius (mm)	Temperature Range (°C)
0.50	39	200	120	300	1500	7.5*OD	-30~+90
0.75	26						
1.00	19.5						
1.50	13.3						
2.50	7.98						

Constructional Information

0.50mm²

P/N	Cross Sectional Area (mm ²)	Overall Diameter (mm)	Copper Index (kg/km)	Nom. Weight (kg/km)
C15113	2×0.50	5.00	8	30
C15114	3×0.50	5.50	13	41
C15115	4×0.50	5.95	17	49
C15116	5×0.50	6.60	21	61
C15117	6×0.50	7.15	25	70
C15118	7×0.50	7.15	29	77
C15119	8×0.50	7.90	34	89
C15120	10×0.50	8.85	42	106
C15121	12×0.50	9.10	50	121
C15122	14×0.50	9.55	59	136
C15123	16×0.50	10.40	67	162
C15124	18×0.50	10.90	76	179
C15125	19×0.50	10.90	80	185
C15126	20×0.50	11.45	84	196
C15127	24×0.50	12.65	101	230
C15128	25×0.50	12.65	105	237

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C15113 TO C15179
0.75mm²

P/N	Cross Sectional Area (mm ²)	Overall Diameter (mm)	Copper Index (kg/km)	Nom. Weight (kg/km)
C15129	2×0.75	5.70	13	40
C15130	3×0.75	6.00	19	51
C15131	4×0.75	6.75	25	66
C15132	5×0.75	7.30	32	78
C15133	6×0.75	7.90	38	92
C15134	7×0.75	7.90	44	100
C15135	8×0.75	8.75	50	116
C15136	10×0.75	10.25	63	147
C15137	12×0.75	10.55	76	168
C15138	14×0.75	11.05	88	190
C15139	16×0.75	11.60	101	213
C15140	18×0.75	12.20	114	238
C15141	19×0.75	12.20	120	246
C15142	20×0.75	12.85	126	261
C15143	24×0.75	14.55	151	318
C15144	25×0.75	14.55	158	328

1.00mm²

P/N	Cross Sectional Area (mm ²)	Overall Diameter (mm)	Copper Index (kg/km)	Nom. Weight (kg/km)
C15145	2×1.00	5.90	17	45
C15146	3×1.00	6.25	25	58
C15147	4×1.00	6.95	34	75
C15148	5×1.00	7.56	42	91
C15149	6×1.00	8.20	50	105
C15150	7×1.00	8.20	59	116
C15151	8×1.00	9.10	67	134
C15152	10×1.00	10.65	84	170
C15153	12×1.00	10.95	101	196
C15154	14×1.00	11.45	118	222
C15155	16×1.00	12.05	135	249
C15156	18×1.00	12.70	151	278
C15157	19×1.00	12.70	160	289
C15158	20×1.00	13.35	168	305

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1.50mm²

P/N	Cross Sectional Area (mm ²)	Overall Diameter (mm)	Copper Index (kg/km)	Nom. Weight (kg/km)
C15159	2×1.50	6.80	25	61
C15160	3×1.50	7.20	37	80
C15161	4×1.50	7.80	49	99
C15162	5×1.50	8.50	61	119
C15163	6×1.50	9.25	74	140
C15164	7×1.50	9.25	86	156
C15165	8×1.50	10.70	98	190
C15166	10×1.50	12.05	123	227
C15167	12×1.50	12.45	147	264
C15168	14×1.50	13.05	172	301
C15169	16×1.50	13.75	197	338
C15170	18×1.50	14.85	221	390
C15171	19×1.50	14.85	233	406

2.50mm²

P/N	Cross Sectional Area (mm ²)	Overall Diameter (mm)	Copper Index (kg/km)	Nom. Weight (kg/km)
C15172	2×2.50	7.90	41	86
C15173	3×2.50	8.35	61	114
C15174	4×2.50	9.15	82	146
C15175	5×2.50	10.40	102	186
C15176	6×2.50	11.30	123	221
C15177	7×2.50	11.30	143	244
C15178	8×2.50	12.65	164	284
C15179	10×2.50	14.65	205	355

Reference Standards

IEC 60228	IEC60754-1&-2
EN 50290-2	IEC 60332-3-24
IEC 61034	VDE 0472-814 Fire Resistant FE180
IEC 60331-11-21 E90	
RoHS directives	