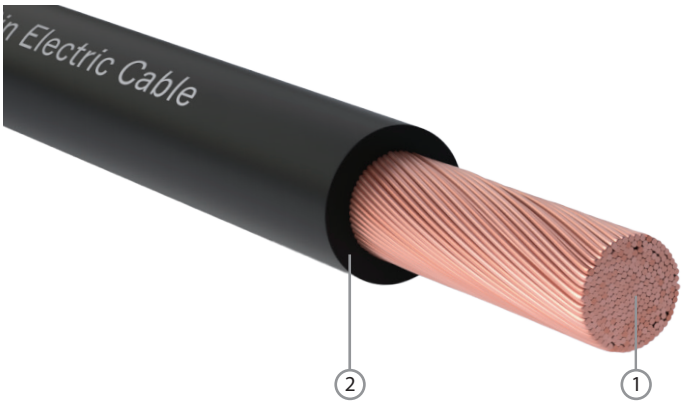
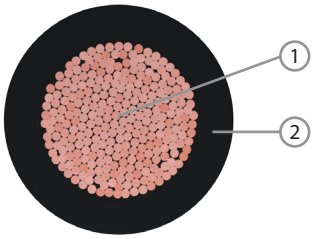
FRT-Z-F

CU / LSZH (SINGLE CORE)

Cross-Linked LSZH Insulated Non-Sheathed Cable, 450/750V or 600/1000V, BS EN50525-3-41, H07Z-K





Component
1. Plain Annealed Flexible Copper Wire (Class 5)
2. Low Smoke Zero Halogen (LSZH) Compound

CONSTRUCTION

Conductor:	Plain Annealed Flexible Copper, Class 5 Stranded Circular
Insulation:	Cross-linked Low Smoke Zero Halogen (LSZH) Compound with Anti-Termite Characteristic and UV Resistant
Insulation Colour:	Black / Other colour upon request

REFERENCE STANDARDS

Design Specification:	BS EN50525-3-41
Conductor:	IEC60228, BS EN60228
Flame Retardancy:	IEC60332-3-24, BS EN IEC60332-3-24
Low Smoke Zero Halogen:	IEC61034-2, BS EN61034-2 IEC60754-1, IEC60754-2 BS EN60754-1, BS EN60754-2

ELECTRICAL CHARACTERISTICS

Operating Voltage:	450/750V or 600/1000V
Operating Temperature:	-15°C to 90°C
Final Short Circuit Temperature:	250°C
Test Voltage:	2.5kV for 5 minutes (450/750V) 3.5kV for 5 minutes (600/1000V)

INSTALLATION REFERENCE

Min. Bending Radius (mm):	6 x cable overall diameter
Max. Pulling Tension (N/mm^2):	15

SINGLE CORE

Nominal Conductor Area (mm^2)	Approx Conductor Diameter (mm)	Insulation Thickness (mm)	Approx Cable Overall Diameter (mm)	Approx Cable Weight (kg/km)	Current Rating 1 or 3 Phase a.c [Air 30˚C] (A)	Voltage Drop (V/A/km)	Minimum Insulation Resistance at Ambient (MΩ.km)	Maximum Conductor Resistance at 20˚C (Ω/km)
1 x 1.5	1.6	0.7	3.0	20	22	29.40	2000	13.3
1 x 2.5	2.0	0.8	3.6	31	30	17.60	2000	7.98
1 x 4	2.5	0.8	4.1	46	40	10.90	2000	4.95
1 x 6	3.4	0.8	5.0	64	51	7.29	2000	3.30
1 x 10	4.3	1.0	6.3	109	70	4.22	2000	1.91
1 x 16	5.2	1.0	7.2	169	94	2.68	2000	1.21
1 x 25	6.6	1.2	9.0	259	125	1.74	2000	0.780
1 x 35	7.8	1.2	10.2	352	155	1.24	2000	0.554
1 x 50	9.8	1.4	12.8	503	196	0.88	2000	0.386
1 x 70	11.0	1.4	14.0	689	248	0.63	2000	0.272
1 x 95	13.2	1.6	16.6	909	298	0.49	1000	0.206
1 x 120	14.8	1.6	18.2	1143	354	0.40	1000	0.161
1 x 150	16.5	1.8	20.5	1462	409	0.34	1000	0.129
1 x 185	18.3	2.0	22.7	1737	470	0.30	1000	0.106
1 x 240	21.0	2.2	25.8	2284	565	0.25	1000	0.0801