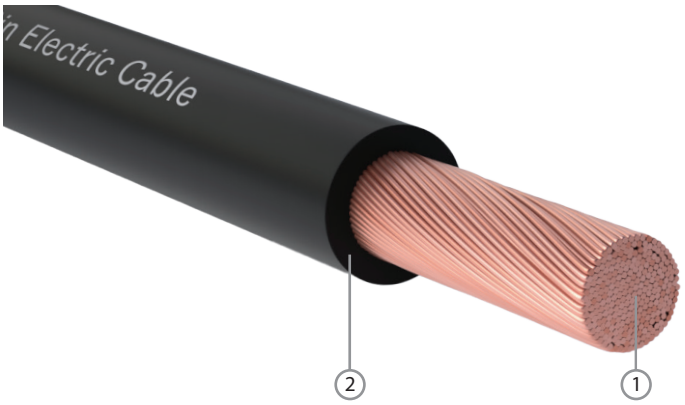
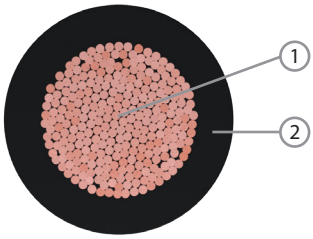
FRT-Z125-F

CU / LSZH (SINGLE CORE)

125˚C Rated LSZH Cross-linked Polyolefin HFFR Insulated Non-Sheathed Flexible Cable, 600/1000Vac, 750Vdc or 1500Vdc, AS/NZS 5000.1





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:	X-HF-110 Grade, Flame Retardant, Low Smoke Zero Halogen (LSZH), Cross-linked Thermosetting Polyolefin Compound
Insulation Colour:	Brown, Black, Grey, Blue, Green/Yellow or other colour upon request.

ELECTRICAL CHARACTERISTICS

Operating Voltage:	Uo/U: 600/1000Vac Uo dc: 750Vdc (Max. 900Vdc) U dc: 1500Vdc (Max. 1800Vdc)
Operating Temperature:	-40°C to 125°C
Final Short Circuit Temperature:	250°C
Test Voltage:	3.5kV for 5 minutes

REFERENCE STANDARDS

Design Specification:	AS/NZS 3808, AS/NZS 5000.1 UL 1581
Conductor:	AS/NZS 1125, IEC 60228
Flame Retardancy:	AS/NZS IEC 60332.3.22, IEC 60332-3-22 AS/NZS IEC 60332.1.2, IEC 60332-1
Low Smoke Zero Halogen:	AS/NZS IEC 61034.2, IEC 61034-2 AS/NZS IEC 60754.1, IEC 60754-1 AS/NZS IEC 60754.2, IEC 60754-2

INSTALLATION REFERENCE

Min. Bending Radius (mm):	2.5 x cable overall diameter
Max. Pulling Tension (N/mm²):	15

	Nominal Conductor Area (mm²)	Approx Conductor Diameter (mm)	Insulation Thickness (mm)	Approx Cable Overall Diameter (mm)	Approx Cable Weight (kg/km)	Unenclosed Touching Current Rating 1 or 3 Phase a.c [Air 30˚C] (A)	3-Phase Voltage Drop (V/A/km)	Minimum Insulation Resistance at Ambient (MΩ.km)	Maximum Conductor Resistance at 20˚C (Ω/km)
SINGLE CORE	1 x 1.0	1.2	0.7	2.7	15	22	49.7	2000	19.5
	1 x 1.5	1.4	0.7	2.9	20	28	31.9	2000	13.3
	1 x 2.5	1.8	0.7	3.3	30	36	17.4	2000	7.98
	1 x 4	2.5	0.7	4.0	45	48	10.8	2000	4.95
	1 x 6	2.8	0.7	4.3	60	61	7.23	2000	3.30
	1 x 10	4.0	0.7	5.5	100	86	4.30	2000	1.91
	1 x 16	5.0	0.7	6.5	160	112	2.71	2000	1.21
	1 x 25	6.2	0.9	8.1	250	149	1.72	2000	0.780
	1 x 35	7.4	0.9	9.3	350	184	1.25	2000	0.554
	1 x 50	8.8	1.0	10.9	490	232	0.929	2000	0.386
	1 x 70	10.6	1.1	12.9	690	292	0.657	2000	0.272
	1 x 95	12.3	1.1	14.6	900	352	0.491	1000	0.206
	1 x 120	14.5	1.2	17.0	1100	417	0.403	1000	0.161
	1 x 150	16.3	1.4	19.2	1400	482	0.344	1000	0.129

Note : To determine the single phase or d.c circuit, the voltage drop shall be multiplying by the 3-Phase value by 1.155