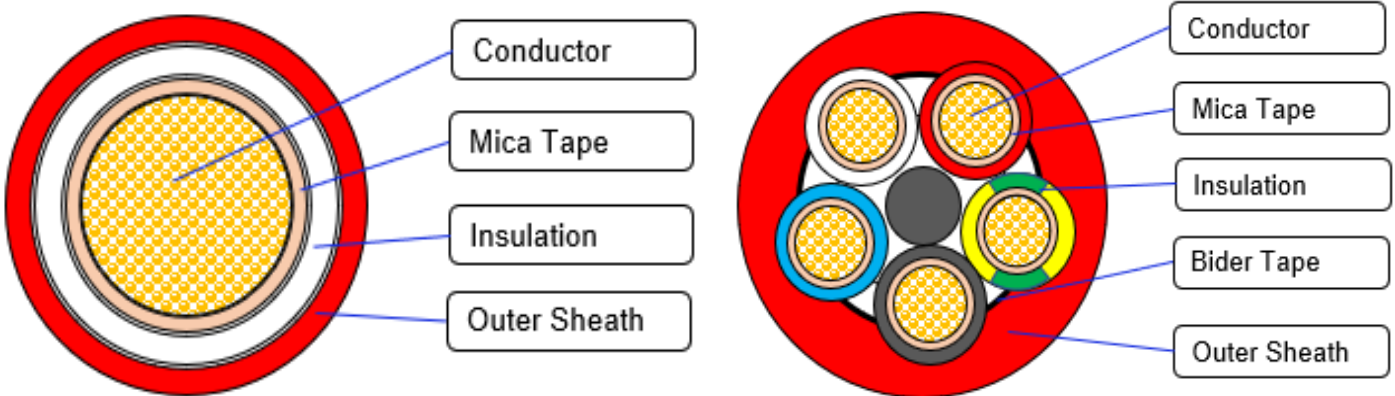


## RALOS Fire Rated Cable

### Cable Drawing



### Application

Fire resistance extra flexible power cables supply to essential circuits like mains and others areas, 0.6/1KV, -20 to 110°C, comply with AS/NZS 3013. BC(CL5)/MC/X-HF-110/HFS-110-TP

### Mechanical and Electrical Properties

**Temperature Range:** -20 to +110°C.

**Rated Voltage:** 0.6/1KV.

**Min Bending Radius:** 12 X Cables Diameter after installed, 18 X Cables Diameter during installing.

### Relevant Standard

AS/NZS1125, AS/NZS3808, AS/NZS5000.1, AS/NZS3013(WS52W), IEC60332-1

### Cable Construction

**Conductor:** Annealed bare copper wire conductor standard to AS/NZS1125 class 5.

**Fire Barrier Layer:** Mica tape wrapping, overlap 35%.

**Insulation:** X-HF-110 comply to AS/NZS3808, insulation color identification see below.

1 Core: Natural

2 Core + E: Red, Black, Green/Yellow

3 Core + E: Red, White, Blue, Green/Yellow

4 Core + E: Red, White, Blue, Black, Green/Yellow

**Cable Lay up:** All cores are laid up together with binder tape wrapped (Only for multi-core type).

**Outer Sheath:** HFS-110-TP comply to AS/NZS3808, color is Red.

## Parameter

Type	Cores x CSA	Diameter of Conductor	Thickness of Insulation	Thickness of Outer Sheath	Overall Diameter	Approx Weight	20°C Max. D.C Conductor Resistance
Part No.	mm <sup>2</sup>	mm	mm	mm	mm	kg/km	Ω/km
FR1X2.5R	1C2.5	2.0	0.7	1.4	7.8	77	7.98
FR1X4R	1C4.0	2.6	0.7	1.4	8.4	96	4.95
FR1X6R	1C6.0	3.2	0.7	1.4	9.0	119	3.3
FR1X10R	1C10	4.3	0.7	1.4	10.1	163	1.91
FR1X16R	1C16	5.4	0.7	1.4	11.2	224	1.21
FR1X25R	1C25	6.7	0.9	1.4	12.9	321	0.78
FR1X35R	1C35	7.9	0.9	1.4	14.1	424	0.554
FR1X50R	1C50	9.7	1.0	1.4	16.1	586	0.386
FR1X70R	1C70	11.2	1.1	1.4	17.8	814	0.272
FR1X95R	1C95	13.1	1.1	1.5	19.9	1002	0.206
FR1X120R	1C120	15.1	1.2	1.5	22.1	1252	0.161
FR1X150R	1C150	16.5	1.4	1.6	24.1	1565	0.129
FR1X185R	1C185	18.0	1.6	1.6	26.0	1862	0.106
FR1X240R	1C240	21.0	1.7	1.7	29.4	2489	0.0801
FR1X300R	1C300	24.0	1.8	1.8	32.8	3073	0.0641
FR1X400R	1C400	27.0	2.0	1.9	36.4	4027	0.0486
FR1X500R	1C500	31.5	2.2	1.9	41.3	5016	0.0384
FR1X630R	1C630	35.0	2.4	2.1	45.6	6294	0.0287
FR3G2.5R	2C2.5+E2.5	2.0	0.7	1.8	14.4	331	7.98
		2.0	0.7				7.98
FR3G4R	2C4.0+E2.5	2.6	0.7	1.8	15.7	395	4.95
		2.0	0.7				7.98
FR3G6R	2C6.0+E2.5	3.2	0.7	1.8	17.0	474	3.3
		2.0	0.7				7.98
FR3G10R	2C10+E4.0	4.3	0.7	1.8	21.1	631	1.91
		2.6	0.7				4.95
FR3G16R	2C16+E6.0	5.4	0.7	1.8	21.6	842	1.21
		3.2	0.7				3.3
FR3G25R	2C25+E6.0	6.7	0.9	1.8	25.2	1158	0.78
		3.2	0.7				3.3
FR4G2.5R	3C2.5+E2.5	2.0	0.7	1.8	15.7	391	7.98
		2.0	0.7				7.98
FR4G4R	3C4.0+E2.5	2.6	0.7	1.8	17.2	471	4.95
		2.0	0.7				7.98
FR4G6R	3C6.0+E2.5	3.2	0.7	1.8	18.5	577	3.3
		2.0	0.7				7.98
FR4G10R	3C10+E4.0	4.3	0.7	1.8	21.1	779	1.91
		2.6	0.7				4.95
FR4G16R	3C16+E6.0	5.4	0.7	1.8	23.4	1052	1.21
		3.2	0.7				3.3
FR4G25R	3C25+E6.0	6.7	0.9	1.8	27.4	1467	0.78
		3.2	0.7				3.3
FR4G35R	3C35+E10	7.9	0.9	1.8	30.2	1946	0.554
		4.3	0.7				1.91
FR4G50R	3C50+E16	9.7	1.0	1.8	34.2	2688	0.386
		5.4	0.7				1.21
FR5G2.5R	4C2.5+E2.5	2.0	0.7	1.8	17.1	446	7.98
		2.0	0.7				7.98
FR5G4R	4C4.0+E2.5	2.6	0.7	1.8	18.7	542	4.95
		2.0	0.7				7.98
FR5G6R	4C6.0+E2.5	3.2	0.7	1.8	20.4	670	3.3
		2.0	0.7				7.98
FR5G10R	4C10+E4.0	4.3	0.7	1.8	23.0	912	1.91
		2.6	0.7				4.95
FR5G16R	4C16+E6.0	5.4	0.7	1.8	25.9	1244	1.21
		3.2	0.7				3.3
FR5G25R	4C25+E6.0	6.7	0.9	1.8	29.9	1765	0.78
		3.2	0.7				3.3
FR5G35R	4C35+E10	7.9	0.9	1.8	33.0	2347	0.554
		4.3	0.7				1.91
FR5G50R	4C50+E16	9.7	1.0	1.9	38.4	3246	0.386
		5.4	0.7				1.21
FR5G70R	4C70+E25	11.2	1.1	2.0	43.0	3246	0.272
		6.7	0.9				0.78
FR5G95R	4C95+E25	13.1	1.1	2.1	48.2	3246	0.206
		6.7	0.9				0.78

### NOTE:

1. The data shown is approximate and subjects to standard industry tolerances.

# Certificate of Compliance

**DKSH Australia Pty. Ltd.**

1 Beyer Road.

Braeside VIC 3195.

**Phone:** 1800 010 113.

**Fax :** (03) 9554 6677

Email: sales.quotes@dksh.com

Certificate No.: HY20230421-01	Issued On: 21 - April, 2023
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## This certificate relates to the following:

<b>Product Type</b>	Fire Resistance Electric Cable (FR)
<b>Voltage</b>	0.6/1kV
<b>Temperature</b>	-20 up to +110°C
<b>Description</b>	Conductor: Bare copper wire class 5 Fire Resistant Layers: Mica tape Insulation: X-HF-110 Outer Sheath: HFS-110-TP

We hereby confirm that the above cables conforms in every respect to the relevant AS/NZS1125 & AS/NZS3808 & AS/NZS5000.1 & AS/NZS3013(WS52W rating).

# Contact Us

## NEW SALES ENQUIRIES

Phone: 1800 010 113

Email: [sales.quotes@dksh.com](mailto:sales.quotes@dksh.com)

Web: <https://direct.dksh.com.au/electrical>

## EXISTING SALES ENQUIRIES

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Canning Vale WA 6155

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Acacia Ridge QLD 4110

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