

# RALOS Halogen Free Flexible Building Wires

**Applications**

Flexible single cable used in switchboards, locomotives and others electronic equipments for fixed application.

**Cable Construction**

**Conductor** Tinned copper wire conductor standard to AS/NZS1125 class 5 & 6.

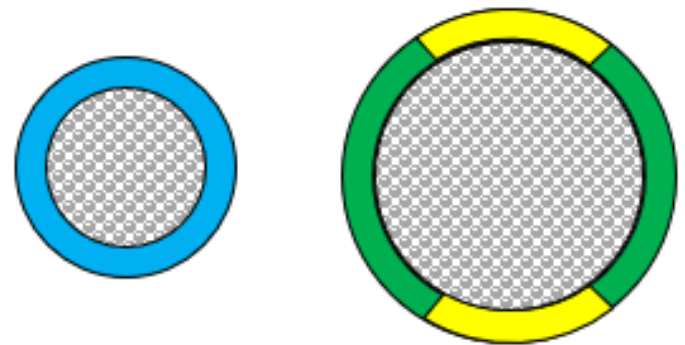
**Insulation** X-HF-110, color according to requirement.

**Mechanical and Electrical Properties**

**Temperature Range:** -40 to +110°C.

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

**Min Bending Radius:** 6 X Cables Diameter.



**Relevant Standard**

AS/NZS1125, AS/NZS3808, AS/NZS5000.1, IEC60332-1, IEC60332-3-22(CAT A), IEC60754-1 & 2, IEC61034-2

Size	Diameter of Conductor	Thickness of Insulation	Overall Diameter	Approx. Weight	Max. 20°C D.C Conductor Resistance	Current Rating (Three Phase, Spaced)
mm <sup>2</sup>	mm	mm	mm	kg/km	Ω/km	A
0.5	0.9	0.7	2.4	10	40.1	11
0.75	1.1	0.7	2.6	13	26.7	15
1.0	1.3	0.7	2.8	16	20	25
1.5	1.5	0.7	3.0	20	13.7	31
2.5	2.0	0.7	3.5	33	8.21	42
4.0	2.6	0.7	4.1	45	5.09	55
6.0	3.2	0.7	4.7	64	3.39	70
10	4.3	0.7	5.8	104	1.95	99
16	5.3	0.7	6.8	159	1.24	130
25	6.6	0.9	8.7	249	0.795	173
35	7.8	0.9	9.9	345	0.565	214
50	9.3	1.0	11.6	491	0.393	270
70	11.2	1.1	13.7	702	0.277	340
95	12.6	1.1	15.1	878	0.21	410
120	14.3	1.2	17.0	1114	0.164	487
150	15.8	1.4	18.9	1412	0.132	562
185	17.5	1.6	21.0	1687	0.108	644

**NOTE:**

1. Insulation color identification requirement: BK(RAL9005), BE(RAL5015), BN(RAL8003), RD(RAL3000), WE(RAL9010), GY(RAL7000), VT(RAL4001), PK(RAL3015), OE(RAL2003), GN/YW(RAL6018/RAL1021)

2. 0.5–6.0mm<sup>2</sup>: class 5, 10–185mm<sup>2</sup>: class 6.

3. The data shown is approximate and subject to standard industry tolerances.

# Halogen Free Flexible Building Wires

# RALOS

## 110°C FLEXIBLE HALOGEN-FREE BUILDING WIRE

AS/NZS standard 1100c halogen free, low smoke, high temperature, flame-retardant, UV-resistant flexible cable



Part No.	Description
HF1X0.5BK	0.5mm Flexible Black
HF1X0.5BE	0.5mm Flexible Blue
HF1X0.5BN	0.5mm Flexible Brown
HF1X0.5RD	0.5mm Flexible Red
HF1X0.5WE	0.5mm Flexible White
HF1X0.5GY	0.5mm Flexible Grey
HF1X0.5VT	0.5mm Flexible Violet
HF1X0.5PK	0.5mm Flexible Pink
HF1X0.5OE	0.5mm Flexible Orange
HF1X0.5GN/YW	0.5mm Flexible Green/Yellow

HF1X0.75BK	0.75mm Flexible Black
HF1X0.75BE	0.75mm Flexible Blue
HF1X0.75BN	0.75mm Flexible Brown
HF1X0.75RD	0.75mm Flexible Red
HF1X0.75WE	0.75mm Flexible White
HF1X0.75GY	0.75mm Flexible Grey
HF1X0.75VT	0.75mm Flexible Violet
HF1X0.75PK	0.75mm Flexible Pink
HF1X0.75OE	0.75mm Flexible Orange
HF1X0.75GN/YW	0.75mm Flexible Green/Yellow

HF1X1BK	1mm Flexible Black
HF1X1BE	1mm Flexible Blue
HF1X1BN	1mm Flexible Brown
HF1X1RD	1mm Flexible Red
HF1X1WE	1mm Flexible White
HF1X1GY	1mm Flexible Grey
HF1X1VT	1mm Flexible Violet
HF1X1PK	1mm Flexible Pink
HF1X1OE	1mm Flexible Orange
HF1X1GN/YW	1mm Flexible Green/Yellow

Part No.	Description
HF1X1.5BK	1.5mm Flexible Black
HF1X1.5BE	1.5mm Flexible Blue
HF1X1.5BN	1.5mm Flexible Brown
HF1X1.5RD	1.5mm Flexible Red
HF1X1.5WE	1.5mm Flexible White
HF1X1.5GY	1.5mm Flexible Grey
HF1X1.5VT	1.5mm Flexible Violet
HF1X1.5PK	1.5mm Flexible Pink
HF1X1.5OE	1.5mm Flexible Orange
HF1X1.5GN/YW	1.5mm Flexible Green/Yellow

HF1X2.5BK	2.5mm Flexible Black
HF1X2.5BE	2.5mm Flexible Blue
HF1X2.5BN	2.5mm Flexible Brown
HF1X2.5RD	2.5mm Flexible Red
HF1X2.5WE	2.5mm Flexible White
HF1X2.5GY	2.5mm Flexible Grey
HF1X2.5VT	2.5mm Flexible Violet
HF1X2.5PK	2.5mm Flexible Pink
HF1X2.5OE	2.5mm Flexible Orange
HF1X2.5GN/YW	2.5mm Flexible Green/Yellow

HF1X4BK	4mm Flexible Black
HF1X4BE	4mm Flexible Blue
HF1X4RD	4mm Flexible Red
HF1X4WE	4mm Flexible White
HF1X4GN/YW	4mm Flexible Green/Yellow

Part No.	Description
HF1X6BK	6mm Flexible Black
HF1X6BE	6mm Flexible Blue
HF1X6RD	6mm Flexible Red
HF1X6WE	6mm Flexible White
HF1X6GN/YW	6mm Flexible Green/Yellow

HF1X10BK	10mm Flexible Black
HF1X10BE	10mm Flexible Blue
HF1X10RD	10mm Flexible Red
HF1X10WE	10mm Flexible White
HF1X10GN/YW	10mm Flexible Green/Yellow

HF1X16BK	16mm Flexible Black
HF1X16BE	16mm Flexible Blue
HF1X16RD	16mm Flexible Red
HF1X16WE	16mm Flexible White
HF1X16GN/YW	16mm Flexible Green/Yellow

HF1X25GN/YW	25mm Flexible Green/Yellow
HF1X35GN/YW	35mm Flexible Green/Yellow
HF1X50GN/YW	50mm Flexible Green/Yellow
HF1X70GN/YW	70mm Flexible Green/Yellow
HF1X95GN/YW	95mm Flexible Green/Yellow
HF1X120GN/YW	120mm Flexible Green/Yellow
HF1X150GN/YW	150mm Flexible Green/Yellow
HF1X185GN/YW	185mm Flexible Green/Yellow

## COLOUR CODING

<b>BK = Black</b>	<b>BK = Black</b>	<b>BN = Brown</b>	<b>RD = Red</b>	<b>GY = Grey</b>
<b>OE = Orange</b>	<b>PK = Pink</b>	<b>VT = Violet</b>	<b>WE = White</b>	<b>GN/YW = Green/Yellow</b>

# Certificate of Compliance

# RALOS

<b>Certificate No.:</b> HY20221104-01	<b>Issued On:</b> November 4, 2022
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## This certificate relates to the following:

<b>Product Type</b>	Panel Wire
<b>Voltage</b>	0.6/1 kV
<b>Temperature</b>	-40°C up to +110°C
<b>Description</b>	Conductor: Class 5&6 tinned copper wire Insulation: X-HF-110 Sectional Area: 0.5 ~ 185 SQMM

We hereby confirm that the above cables conform to every respect to the relevant AS/NZS5000.1 and customer requirement.



# 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

Phone: 1800 010 113

Email: [customer care\\_au@dksh.com](mailto:customer care_au@dksh.com)

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

### Victoria

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Braeside VIC 3195

Phone: 1800 010 113

### NSW South Wales

7B Sepia Road, Building 1B2,  
Kemps Creek NSW 2178

Phone: 1800 010 113

### Western Australia

9-11 Coulson Way,  
Canning Vale WA 6155  
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### Queensland

42 Colebard Street East  
Acacia Ridge QLD 4110

Phone 1800 010 113

### South Australia

Phone 1800 010 113

