

## FEATURES

- Meets Eca copper network Cable regulations
- High dielectric strength
- Excellent ozone and weathering resistance)
- CPE sheath material is giving protection against heat or oil
- Copper provides flexibility and straight-forward installation process

## RS PRO 3 Core 1.5 mm<sup>2</sup> Mains Power Cable, Black CPE Sheath 50m, 18 A 450 V, 750 V, H07RN-F

RS Stock No.: 773-9042



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

Having flexible CPE (Chlorinated Polyethylene) sheathed three core round Cable with broadly known EPR insulation material is a panacea to the world demanding connection needs. Mainly where oxidation, heat, oil or flame resistance are crucial parameters in any building construction. We are proudly introducing our own branded RS PRO H07RN-F Harmonised Flexible EPR Insulated Mains Cable characterising of high dielectric strength and above-average ozone and weathering resistance. The conductor material used is bare stranded copper, providing the highest electrical conductivity of all non-precious metals.

## General Specifications

<b>Harmonised Code</b>	H07RN-F
<b>Sheath Material</b>	CPE
<b>Sheath Colour</b>	Black
<b>Fire Behaviour</b>	Flame Retardant
<b>Applications</b>	Construction sites (public or private electrical line or wiring in power installation), Domestic use (sheds, garden office), Industrial sites (warehouse, back office), Electrical operating tools, Construction lighting and machines, The cables are used as electrical connect line or wiring in power installation, household appliances, electrically operated tools, construction lighting and machines inner rated voltage A.C 450/750V or below.

## Electrical Specifications

<b>Current Rating</b>	18A
<b>Voltage Rating</b>	450 V, 750 V
<b>Insulation Material</b>	EPR
<b>Conductor Material</b>	Copper
<b>Conductor Resistance</b>	13.3 Ω/km

## Mechanical Specifications

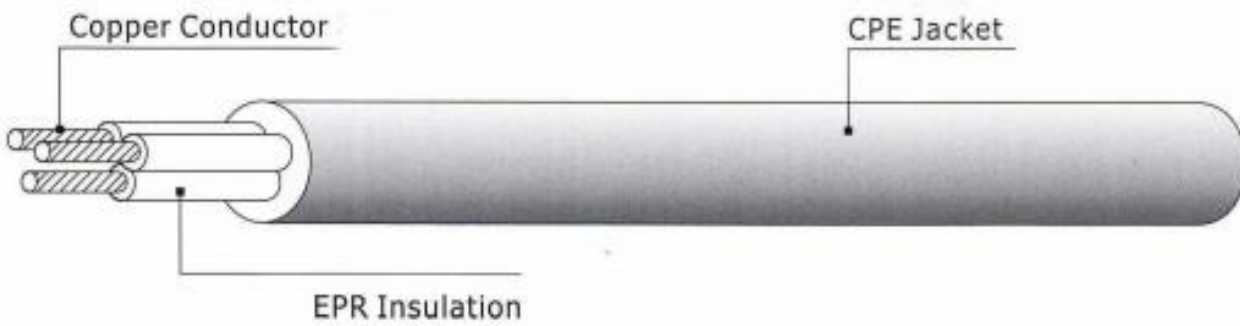
<b>Length</b>	50m
<b>Cross Sectional Area</b>	1.5 mm <sup>2</sup>
<b>American Wire Gauge</b>	15 AWG
<b>Outer Diameter</b>	10.1
<b>Number of Cores</b>	3
<b>Number of Strands</b>	30
<b>Size of Strands</b>	0.24mm
<b>Core Strands</b>	30/0.24mm
<b>Conductor Strand Type</b>	Stranded

## Operation Environment Specifications

<b>Operating Temperature Range</b>	-25°C to +60°C
<b>Minimum Operating Temperature</b>	-25°C
<b>Maximum Operating Temperature</b>	+60°C

## Approvals

<b>Compliance/Certifications</b>	2011/65/EU and 2015/863
<b>Standards Met</b>	Euroclass Eca



RS Stock No	Description no of cores x section	Conductor construction ( $\pm 0.03$ mm)	Insulation normal thickness (mm)	Jacket normal thickness (mm)	Jacket diameter for reference (mm)	Conductor D.C. resistance at 20°C ( $\leq$ ohms/km)
7213235	H07RNF 2X1.0mm <sup>2</sup> 50M	32/0.193	0.8	1.3	8.3 $\pm$ 0.4	19.5
7739020	H07RNF 2X1.0mm <sup>2</sup> 100M	32/0.193	0.8	1.3	8.3 $\pm$ 0.4	19.5
7739023	H07RNF 2X1.5mm <sup>2</sup> 50M	30/0.24	0.8	1.5	9.3 $\pm$ 0.4	13.3
7739039	H07RNF 2X1.5mm <sup>2</sup> 100M	30/0.24	0.8	1.5	9.3 $\pm$ 0.4	13.3
7739027	H07RNF 2X2.5mm <sup>2</sup> 50M	49/0.24	0.9	1.7	11.0 $\pm$ 0.4	7.98
7739036	H07RNF 2X2.5mm <sup>2</sup> 100M	49/0.24	0.9	1.7	11.0 $\pm$ 0.4	7.98
7739042	H07RNF 3X1.5mm <sup>2</sup> 50M	30/0.24	0.8	1.6	10.1 $\pm$ 0.4	13.3
7739045	H07RNF 3X1.5mm <sup>2</sup> 100M	30/0.24	0.8	1.6	10.1 $\pm$ 0.4	13.3
7739033	H07RNF 3X2.5mm <sup>2</sup> 50M	49/0.24	0.9	1.8	11.8 $\pm$ 0.4	7.98
7739049	H07RNF 3X2.5mm <sup>2</sup> 100M	49/0.24	0.9	1.8	11.8 $\pm$ 0.4	7.98
7739058	H07RNF 3X4.0mm <sup>2</sup> 50M	56/0.29	1.0	1.9	13.5 $\pm$ 0.5	4.95
7739051	H07RNF 3X4.0mm <sup>2</sup> 100M	56/0.29	1.0	1.9	13.5 $\pm$ 0.5	4.95
8213239	H07RNF 3X6.0mm <sup>2</sup> 50M	84/0.29	1.0	2.1	15.4 $\pm$ 0.5	3.3
7739055	H07RNF 3X6.0mm <sup>2</sup> 100M	84/0.29	1.0	2.1	15.4 $\pm$ 0.5	3.3
7739067	H07RNF 4X1.5mm <sup>2</sup> 50M	30/0.24	0.8	1.7	11.1 $\pm$ 0.4	13.3
7739061	H07RNF 4X1.5mm <sup>2</sup> 100M	30/0.24	0.8	1.7	11.1 $\pm$ 0.4	13.3
7739064	H07RNF 4X2.5mm <sup>2</sup> 50M	49/0.24	0.9	1.9	13.0 $\pm$ 0.4	7.98
7739070	H07RNF 4X2.5mm <sup>2</sup> 100M	49/0.24	0.9	1.9	13.0 $\pm$ 0.4	7.98
7739073	H07RNF 4X4.0mm <sup>2</sup> 50M	56/0.29	1.0	2.0	15.2 $\pm$ 0.5	4.95
7739077	H07RNF 4X4.0mm <sup>2</sup> 100M	56/0.29	1.0	2.0	15.2 $\pm$ 0.5	4.95
8213248	H07RNF 5X1.5mm <sup>2</sup> 50M	30/0.24	0.8	1.8	12.2 $\pm$ 0.5	13.3
7739086	H07RNF 5X1.5mm <sup>2</sup> 100M	30/0.24	0.8	1.8	12.2 $\pm$ 0.5	13.3
8213241	H07RNF 5X2.5mm <sup>2</sup> 50M	49/0.24	0.9	2.0	14.4 $\pm$ 0.5	7.98
7739089	H07RNF 5X2.5mm <sup>2</sup> 100M	49/0.24	0.9	2.0	14.4 $\pm$ 0.5	7.98
8213245	H07RNF 5X4.0mm <sup>2</sup> 50M	56/0.29	1.0	2.2	16.9 $\pm$ 0.5	4.95
7739083	H07RNF 5X4.0mm <sup>2</sup> 100M	56/0.29	1.0	2.2	16.9 $\pm$ 0.5	4.95
8213254	H07RNF 5X6.0mm <sup>2</sup> 50M	84/0.29	1.0	2.5	19.1 $\pm$ 0.6	3.3
7739092	H07RNF 5X6.0mm <sup>2</sup> 100M	84/0.29	1.0	2.5	19.1 $\pm$ 0.6	3.3

**Remark:** Conductor diameter just for your reference, the key test is resistance of conductor.