## HO7RN-F BS EN 50525-2-21 Unscreened Multicore Flexible Rubber Cable

# multicomp PRO

RoHS

**Compliant** 



### Application:

These cables are designed to provide high flexibility and have the capacity to withstand weather, oil/grease, mechanical and thermal stresses. Applications include handling equipment, mobile power supplies, worksites, stage and audio visual equipment, port areas and dams. Also for use in drainage and water treatment, cold environments and severe industrial environments.

### **Cable Standards:**

Made in accordance with the following: BS EN 50525-2-21 (BS 7919), BS EN 60811-2-1, BS EN/IEC 60332-1-2

## **Construction:**

Conductor	: Class 5 flexible copper conductor to BS EN 60228 (previously BS 6360)
Insulation	: EPR (Ethylene Propylene Rubber) Type El4 according to BS EN 50363
Sheath	: PCP (Polychloroprene) Type EM2 according to BS EN 50363

### Characteristics:

Voltage Rating (Uo/U) Temperature Rating	: 450/750V : Fixed: -30°C to +60°C +85°C. For fixed protected installations. Flexed: -15°C to +60°C
Min. Bending Radius	: Fixed : 4 × overall diameter Flexed: 6 x overall diameter
Core Identification	<ul> <li>: 3 core : Green/Yellow, Blue &amp; Brown</li> <li>4 core : Green/Yellow, Brown, Black &amp; Grey</li> <li>5 core : Green/Yellow, Blue, Brown, Black &amp; Grey</li> <li>6 core and above : Black with White numbers, Green/Yellow</li> </ul>
Sheath Colour	: Black

## Electrical Characteristics (1mm<sup>2</sup> to 2.5mm<sup>2</sup>):

Current Carrying Capacity and Mass Supportable

Nominal Cross	Current Carr	Max. Mass Supportable by		
Sectional Area mm <sup>2</sup>	Single-Phase AC Amps	Three-Phase AC Amps	Twin Flexible Cable kg	
1	10	10	5	
1.5	16	16	5	
2.5	25	20	5	

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Voltage Drop

Nominal Cross Sectional Area mm <sup>2</sup>	DC or Single-Phase AC mV/A/m	Three-Phase AC mV/A/m
1	46	40
1.5	32	27
2.5	19	16

Conductor operating temperature: 60°C

## **Electrical Characteristics (4mm<sup>2</sup> and above)**

Current Carrying Capacity

	60°C Conductor Operating Temperature			85°C Conductor Operating Temperature		
Nominal	Iominal Single-Phase AC		AC or DC Three-Phase AC		Single-Phase AC or DC	
Cross Sectional Area mm <sup>2</sup>	1 Two Core Cable, With or Without Protective Conductor Amps	2 Single Core Cables Amps	1 Three Core, Four Core or Five Core Cable Amps	1 Two Core Cable, With or Without Protective Conductor Amps	2 Single Core Cables Touch- ing Amps	1 Three Core, Four Core or Five Core Cable Amps
4	30	-	26	41	-	36
6	39	-	34	53	-	47

Ambient temperature: 30°CConductor operating temperature: 60°C / 85°C

#### Voltage Drop

Nominal Cross Sectional Area mm <sup>2</sup>	Two Core Cable, DC mV/A/m	Two Core Cable, Single-Phase AC mV/A/m	1 Three Core, Four Core or Five Core Cable, Three-Phase AC mV/A/m
4	12	12	10
6	7.8	7.8	6.7

Conductor operating temperature: 60°C

## **De-Rating Factors:**

Ambient Temperature	+35°C	+40°C	+45°C	+50°C	+55°C
De-Rating Factor	0.91	0.82	0.71	0.58	0.41

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## **Dimensions:**

Part Number	No. of Cores	Nominal Cross Sectional Area mm <sup>2</sup>	Nominal Thickness of Insulation mm	Nominal Overall Diameter mm	Nominal Weight kg/km
PP000946	3	6	1	14.78	390
PP000947	4	1	0.8	9.63	142
PP000948	4	1	0.8	9.63	142
PP000949	4	6	1	16.4	449
PP000950	5	1.5	0.8	11.8	206
PP000951	5	1.5	0.8	11.8	206
PP000952	5	2.5	0.9	14	297
PP000953	5	4	1	16.2	422
PP000954	7	1.5	0.8	15.13	315

### **Part Number Table**

Description	Reel Length (m)	Part Number
	50	PP000946
	100	PP000947
	50	PP000948
H07RN-F BS EN 50525-2-21	50	PP000949
Unscreened Multicore Flexible	100	PP000950
Rubber Cable	50	PP000951
	50	PP000952
	50	PP000953
	50	PP000954

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