

H07RN-F BS EN 50525-2-21

Unscreened Multicore Flexible Rubber Cable **pro-POWER**

**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 EI4 according to BS EN 50363
Sheath : PCP (Polychloroprene) Type EM2 according to BS EN 50363

Characteristics:

Voltage Rating (Uo/U) : 450/750V
Temperature Rating : 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 : 3 core : Green/Yellow, Blue & Brown
4 core : Green/Yellow, Brown, Black & Grey
5 core : Green/Yellow, Blue, Brown, Black & Grey
6 core and above : Black with White numbers, Green/Yellow
Sheath Colour : Black

Electrical Characteristics (1mm² to 2.5mm²):

Current Carrying Capacity and Mass Supportable

Nominal Cross Sectional Area mm ²	Current Carrying Capacity		Max. Mass Supportable by Twin Flexible Cable kg
	Single-Phase AC Amps	Three-Phase AC Amps	
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 ²	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 (4mm² and above)

Current Carrying Capacity

Nominal Cross Sectional Area mm ²	60°C Conductor Operating Temperature			85°C Conductor Operating Temperature		
	Single-Phase AC or DC		Three-Phase AC	Single-Phase AC or DC		Three-Phase AC
	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 Touching Amps	1 Three Core, Four Core or Five Core Cable Amps
4	30	-	26	41	-	36
6	39	-	34	53	-	47

Ambient temperature : 30°C

Conductor operating temperature : 60°C / 85°C

Voltage Drop

Nominal Cross Sectional Area mm ²	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 ²	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
H07RN-F BS EN 50525-2-21 Unscreened Multicore Flexible Rubber Cable	50	PP000946
	100	PP000947
	50	PP000948
	50	PP000949
	100	PP000950
	50	PP000951
	50	PP000952
	50	PP000953
	50	PP000954

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