

2.1 Rubber Sheathed Cable H07RN-F

$U_0/U = 450/750V$



1. Application

Rubber sheathed flexible cables are designed to provide high flexibility and have the capacity to withstand weather, oils/greases, mechanical and thermal stresses. These cables are mostly used as power cable for equipment in industry work such as boilers, heating plates, hand lamps, transportable motor etc. They can be installed at medium mechanical stress in dry, damp and wet areas as well as in open air and in agriculture plants. These cables are suitable for direct laying on components and mechanical parts of machines i.e. lifts and cranes.

2. Standard

IEC 60245, GB/T 5013

3. Description

Type	Description
60245 IEC 66 (YCW)	Cu conductor EPR insulated PCP sheathed rubber cable
Equivalent Type	
H07RN-F	

4 . Cable Construction

Conductor :	Annealed copper or Tinned copper Round flexible conductor IEC 60228 Class 5
Insulation :	Ethylene Propylene Rubber (EPR) compound IE4
Sheath :	Polychloroprene/Neoprene Rubber (PCP) compound SE4

5. Technical Data



Rated Voltage : $U_0/U = 450/750V$



Test Voltage : 2500V



Conductor Temperature : Max permissible temperature in continuous use +60°C
Service Temperature : -30°C~+60°C(Max+85°C)



Min Bending Radius : Fixed 4 x Ø
Flexing 7.5 x Ø
2 cores: Brown, Blue



Core Identification : 2 cores + earth (3G): Brown, Blue + Green/Yellow
3 cores + earth (4G): Brown, Blue, Black + Green/Yellow
4 cores + earth (5G): Brown, Blue, Black, Black + Green/Yellow
6 cores and more + earth: Black core white numbering

6. 60245 IEC 66 (YCW) U₀/U = 450/750V

Number of Cores x Nominal Cross Section (mm ²)	Insulation (mm)	Sheath (mm)	Nominal Overall Diameter (mm)		Nominal Cable Weight (Kg/Km)	Max Conductor Resistance at 20°C (Ω/Km)	
			Min	Max		Cu	Tin-Cu
1 x 1.5	EPR 0.8	PCP 1.4	5.7	7.1	60	13.3	13.7
1 x 2.5	EPR 0.9	PCP 1.4	6.3	7.9	78	7.98	8.21
1 x 4	EPR 1.0	PCP 1.5	7.2	9.0	107	4.95	5.09
1 x 6	EPR 1.0	PCP 1.6	7.9	9.8	149	3.30	3.39
1 x 10	EPR 1.2	PCP 1.8	9.5	11.9	224	1.91	1.95
1 x 16	EPR 1.2	PCP 1.9	10.8	13.4	308	1.21	1.24
1 x 25	EPR 1.4	PCP 2.0	12.7	15.8	434	0.780	0.795
1 x 35	EPR 1.4	PCP 2.2	14.3	17.9	569	0.554	0.565
1 x 50	EPR 1.6	PCP 2.4	16.5	20.6	780	0.386	0.393
1 x 70	EPR 1.6	PCP 2.6	18.6	23.3	1031	0.272	0.277
1 x 95	EPR 1.8	PCP 2.8	20.8	26.0	1335	0.206	0.210
1 x 120	EPR 1.8	PCP 3.0	22.8	28.6	1636	0.161	0.164
1 x 150	EPR 2.0	PCP 3.2	25.2	31.4	2033	0.129	0.132
1 x 185	EPR 2.2	PCP 3.4	27.6	34.4	2454	0.106	1.108
1 x 240	EPR 2.4	PCP 3.5	30.6	38.3	3094	0.0801	0.0817
1 x 300	EPR 2.6	PCP 3.6	33.5	41.9	3782	0.0641	0.0654
1 x 400	EPR 2.8	PCP 3.8	37.4	46.8	4898	0.0495	0.0495

Number of Cores x Nominal Cross Section (mm ²)	Insulation (mm)	Sheath (mm)	Nominal Overall Diameter (mm)		Nominal Cable Weight (Kg/Km)	Max Conductor Resistance at 20°C (Ω/Km)	
			Min	Max		Cu	Tin-Cu
2 x 1	EPR 0.8	PCP 1.3	7.7	10.0	88	19.5	20.0
2 x 1.5	EPR 0.8	PCP 1.5	8.5	11.0	114	13.3	13.7
2 x 2.5	EPR 0.9	PCP 1.7	10.2	13.1	163	7.98	8.21
2 x 4	EPR 1.0	PCP 1.8	11.8	15.1	222	4.95	5.09
2 x 6	EPR 1.0	PCP 2.0	13.1	16.8	318	3.30	3.39
2 x 10	EPR 1.2	PCP 3.1	17.7	22.6	575	1.91	1.95
2 x 16	EPR 1.2	PCP 3.3	20.2	25.7	777	1.21	1.24
2 x 25	EPR 1.4	PCP 3.6	24.3	30.7	1089	0.780	0.795

Number of Cores x Nominal Cross Section (mm ²)	Insulation (mm)	Sheath (mm)	Nominal Overall Diameter (mm)		Nominal Cable Weight (Kg/Km)	Max Conductor Resistance at 20°C (Ω/Km)	
			Min	Max		Cu	Tin-Cu
3 x 1	EPR 0.8	PCP 1.4	8.3	10.7	115	19.5	20.0

3 × 1.5	EPR 0.8	PCP 1.6	9.2	11.9	148	13.3	13.7
3 × 2.5	EPR 0.9	PCP 1.8	10.9	14.0	212	7.98	8.21
3 × 4	EPR 1.0	PCP 1.9	12.7	16.2	292	4.95	5.09
3 × 6	EPR 1.0	PCP 2.1	14.1	18.0	419	3.30	3.39
3 × 10	EPR 1.2	PCP 3.3	19.1	24.2	751	1.91	1.95
3 × 16	EPR 1.2	PCP 3.5	21.8	27.6	1025	1.21	1.24
3 × 25	EPR 1.4	PCP 3.8	26.1	33.0	1450	0.780	0.795
3 × 35	EPR 1.4	PCP 4.1	29.3	37.1	1875	0.554	0.565
3 × 50	EPR 1.6	PCP 4.5	34.1	42.9	2560	0.386	0.393
3 × 70	EPR 1.6	PCP 4.8	38.4	48.3	3348	0.272	0.277
3 × 95	EPR 1.8	PCP 5.3	43.3	54.0	4246	0.206	0.210

Number of Cores x Nominal Cross Section (mm ²)	Insulation (mm)	Sheath (mm)	Nominal Overall Diameter (mm)		Nominal Cable Weight (Kg/Km)	Max Conductor Resistance at 20°C (Ω/Km)	
			Min	Max		Cu	Tin-Cu
4 × 1	EPR 0.8	PCP 1.5	9.2	11.9	144	19.5	20.0
4 × 1.5	EPR 0.8	PCP 1.7	10.2	13.1	185	13.3	13.7
4 × 2.5	EPR 0.9	PCP 1.9	12.1	15.5	266	7.98	8.21
4 × 4	EPR 1.0	PCP 2.0	14.0	17.9	368	4.95	5.09
4 × 6	EPR 1.0	PCP 2.3	15.7	20.0	538	3.30	3.39
4 × 10	EPR 1.2	PCP 3.4	20.9	26.5	930	1.91	1.95
4 × 16	EPR 1.2	PCP 3.6	23.8	30.1	1279	1.21	1.24
4 × 25	EPR 1.4	PCP 4.1	28.9	36.6	1858	0.780	0.795
4 × 35	EPR 1.4	PCP 4.4	32.5	41.1	2403	0.554	0.565
4 × 50	EPR 1.6	PCP 4.8	37.7	47.5	3283	0.386	0.393
4 × 70	EPR 1.6	PCP 5.2	42.7	54.0	4327	0.272	0.277
4 × 95	EPR 1.8	PCP 5.9	48.4	61.0	5678	0.206	0.210
4 × 120	EPR 1.8	PCP 6.0	53.0	66.0	6828	0.161	0.164
4 × 150	EPR 2.0	PCP 6.5	58.0	73.0	8520	0.129	0.132

Number of Cores x Nominal Cross Section (mm ²)	Insulation (mm)	Sheath (mm)	Nominal Overall Diameter (mm)		Nominal Cable Weight (Kg/Km)	Max Conductor Resistance at 20°C (Ω/Km)	
			Min	Max		Cu	Tin-Cu
5 × 1	EPR 0.8	PCP 1.6	10.2	13.1	176	19.5	20.0
5 × 1.5	EPR 0.8	PCP 1.8	11.2	14.4	224	13.3	13.7
5 × 2.5	EPR 0.9	PCP 2.0	13.3	17.0	322	7.98	8.21
5 × 4	EPR 1.0	PCP 2.2	15.6	19.9	456	4.95	5.09
5 × 6	EPR 1.0	PCP 2.5	17.5	22.2	664	3.30	3.39
5 × 10	EPR 1.2	PCP 3.6	22.9	29.1	1130	1.91	1.95
5 × 16	EPR 1.2	PCP 3.9	26.4	33.3	1575	1.21	1.24
5 × 25	EPR 1.4	PCP 4.4	32.0	40.4	2282	0.780	0.795