H 0 7 R N – F

FLEXIBLE CABLES EPR RUBBER INSULATED, POLYCHLOROPRENE SHEATHED



1- Flexible copper class 5 EN 60228
2- Rubber type EI4
3- Rubber type EM2

Standard	Approvals	Packaging	
EN 50525-2-21 IEC 60245-1 IEC 60245-4 IEC 60228	HAR		CE

CHARACTERISTICS

Applications: use in industrial and agricultural workshops, building sites, for heavy duty applications and supplying industrial and agricultural machines and appliances where cables are subject to medium mechanical stresses (e.g heating plates, inspection lamps, electric tools such as drills, circular saws, and domestic electric tools) use in dry, humid or moist rooms; fixed installations e.g. on rough-cast in temporary buildings and huts for accommodation purposes.
High resistance against Ozone, U.V rays, oils, moisture and weather inclemencies; Flame Retardant according EN 60332-1-2
In addition , the multicore cables are especially suitable for use as connection to machine tools.

ICC H07RN-F cables are suitable for use in fresh water up to 10m depth and at maximum water temperature up to 40°C, such as the connection of submersible pumps or similar applications. Not suitable for underwater power transmission or installation in watercourse, or where it is possible that mechanical damage might occur and cause hazard.

Sheath colour:	Black
Surface operating temperature:	Fixed installation: -40°C ÷ +80°C Mobile Installation: -25°C ÷ +80°C
Max operating temperature:	-25°C ÷ +90° C on the conductor
Rated voltage Uo/U:	450/750 V (0.6/1kV) According to HD516: Guide to use of low voltage Harmonized cables the use up 1000 V a.c, is permitted for fixed protected installation (in conduit or appliances) and also for motor connection of hoisting motors and the like.
Minimum bending radius:	Mobile installation: 4 x outer diameter of the cable
	Fixed installation: 3 x outer diameter of the cable
Max. temperature in case of short circuit:	200° C on the conductor (max duration 5 seconds)

Colore anime: ÷ Core Identif.:	cavo senza anima g/v ÷ cable without earth core						cavo con anima g/v ÷ cable with earth core						
	Tipo/Type	N	Fase/Line				Tipo/Type	N	Fase/Line				
	2 X	Blue	Brown										
	3 X		Brown	Black	Grey		3G	G	Y	Blue	Brown		
	4 X	Blue	Brown	Black	Grey		4G	G	Y		Brown	Black	Grey
	5 X	Blue	Brown	Black	Grey	Black	5G	G	Y	Blue	Brown	Black	Grey
	≥ 6 X	Black insulation with white numbers					≥ 6 G	Black insulation with white numbers + last core green/yellow					

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Size	Max diameter of wires	Insulation thickness*	Sheath thickness*	Outer diameter	Max conductor resistance at 20°C	Indicative cable weight
mm²	*mm*	*mm*	*mm*	*mm*	*ohms/km*	*kg/km*
1x1.5	0.26	0.8	1.4	5.9	13.3	55
1x2.5	0.26	0.9	1.4	6.6	7.98	70
1x4	0.31	1.0	1.5	7.5	4.95	95
1x6	0.31	1.0	1.6	8.3	3.3	120
1x10	0.41	1.2	1.8	10.0	1.91	195
1x16	0.41	1.2	1.9	11.1	1.21	265
1x25	0.41	1.4	2.0	12.9	0.78	385
1x35	0.41	1.4	2.2	14.5	0.554	510
1x50	0.41	1.6	2.4	16.8	0.386	685
1x70	0.51	1.6	2.6	19.1	0.272	940
1x95	0.51	1.8	2.8	21.3	0.206	1245
1x120	0.51	1.8	3.0	23.4	0.161	1535
1x150	0.51	2.0	3.2	25.7	0.129	1880
1x185	0.51	2.2	3.4	28.1	0.106	2315
1x240	0.51	2.4	3.5	31.2	0.0801	2995
1x300	0.51	2.6	3.6	33.8	0.0641	3665
1x400	0.51	2.8	3.8	38.9	0.0486	4540
1x500	0.51	3.0	4.0	43.2	0.0384	5675
1x630	0.51	3.0	4.1	47.7	0.0287	7435

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Size	Max diameter of wires	Insulation thickness*	Sheath thickness*	Outer diameter	Max conductor resistance at 20°C	Indicative cable weight
mm²	*mm*	*mm*	*mm*	*mm*	*ohms/km*	*kg/km*
2x1	0.21	0.8	1.3	7.9	19.5	90
2x1.5	0.26	0.8	1.5	8.8	13.3	115
2x2.5	0.26	0.9	1.7	10.4	7.98	160
2x4	0.31	1.0	1.8	12.0	4.95	225
2x6	0.31	1.0	2.0	13.5	3.3	295
2x10	0.41	1.2	3.1	18.1	1.91	540
2x16	0.41	1.2	3.3	20.2	1.21	725
2x25	0.41	1.4	3.6	23.7	0.78	1050
2x35	0.41	1.4	3.8	26.3	0.554	1350
2x50	0.41	1.6	4.2	30.6	0.386	1830
2x70	0.51	1.6	4.6	35.0	0.272	2490
2x95	0.51	1.8	5.0	39.1	0.206	3270
3X1	0.21	0.8	1.4	8.7	19.5	110
3X1.5	0.26	0.8	1.6	9.6	13.3	140
3X2.5	0.26	0.9	1.8	11.3	7.98	205
3X4	0.31	1.0	1.9	13.1	4.95	285
3X6	0.31	1.0	2.1	14.7	3.3	375
3X10	0.41	1.2	3.3	19.8	1.91	695
3X16	0.41	1.2	3.5	22.0	1.21	940
3X25	0.41	1.4	3.8	25.9	0.78	1365
3X35	0.41	1.4	4.1	29.0	0.554	1790
3X50	0.41	1.6	4.5	33.6	0.386	2420
3X70	0.51	1.6	4.8	38.1	0.272	3290
3X95	0.51	1.8	5.3	42.8	0.206	4370
3X120	0.51	1.8	5.6	46.9	0.161	5355
3X150	0.51	2.0	6.0	51.6	0.129	6560
4X1	0.21	0.8	1.5	9.6	19.5	135
4X1.5	0.26	0.8	1.7	10.6	13.3	170
4X2.5	0.26	0.9	1.9	12.5	7.98	250
4X4	0.31	1.0	2.0	14.4	4.95	345
4X6	0.31	1.0	2.3	16.4	3.3	470
4X10	0.41	1.2	3.4	21.6	1.91	850
4X16	0.41	1.2	3.6	24.0	1.21	1160
4X25	0.41	1.4	4.1	28.7	0.78	1725
4X35	0.41	1.4	4.4	32.1	0.554	2255
4X50	0.41	1.6	4.8	37.2	0.386	3045
4X70	0.51	1.6	5.2	42.4	0.272	4175
4X95	0.51	1.8	5.9	48.0	0.206	5590
4X120	0.51	1.8	6.0	52.1	0.161	6800

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Size	Max diameter of wires	Insulation thickness*	Sheath thickness*	Outer diameter	Max conductor resistance at 20°C	Indicative cable weight
mm²	*mm*	*mm*	*mm*	*mm*	*ohms/km*	*kg/km*
5X1	0.21	0.8	1.6	10.7	19.5	165
5X1.5	0.26	0.8	1.8	11.7	13.3	210
5X2.5	0.26	0.9	2.0	13.8	7.98	305
5X4	0.31	1.0	2.2	16.1	4.95	430
5X6	0.31	1.0	2.5	18.3	3.3	585
5X10	0.41	1.2	3.6	23.9	1.91	1040
5X16	0.41	1.2	3.9	26.8	1.21	1435
5X25	0.41	1.4	4.4	32.0	0.78	2125
5X35	0.41	1.4	4.8	35.9	0.554	2795
5X50	0.41	1.6	5.2	41.6	0.386	3770
5X70	0.51	1.6	5.7	47.6	0.272	5185
5X95	0.51	1.8	6.3	53.5	0.206	6905

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Size	Max diameter of wires	Insulation thickness*	Sheath thickness*	Outer diameter	Max conductor resistance at 20°C	Indicative cable weight
mm²	*mm*	*mm*	*mm*	*mm*	*ohms/km*	*kg/km*
6X1.5	0.26	0.8	2.5	14.3	13.3	315
7X1.5	0.26	0.8	2.6	15.5	13.3	360
10X1.5	0.26	0.8	2.8	16.8	13.3	450
12X1.5	0.26	0.8	2.9	18.0	13.3	520
14X1.5	0.26	0.8	3.0	19.2	13.3	590
16X1.5	0.26	0.8	3.1	20.4	13.3	665
18X1.5	0.26	0.8	3.2	21.6	13.3	735
19X1.5	0.26	0.8	3.3	22.8	13.3	785
24X1.5	0.26	0.8	3.5	24.2	13.3	940
27X1.5	0.26	0.8	3.5	25.2	13.3	1025
36X1.5	0.26	0.8	3.8	28.7	13.3	1400
6X2.5	0.26	0.9	2.6	16.4	7.98	430
7X2.5	0.26	0.9	2.8	18.0	7.98	500
10X2.5	0.26	0.9	3.0	19.5	7.98	635
12X2.5	0.26	0.9	3.1	20.9	7.98	735
14X2.5	0.26	0.9	3.2	22.3	7.98	770
16X2.5	0.26	0.9	3.3	23.7	7.98	935
18X2.5	0.26	0.9	3.4	25.1	7.98	1040
19X2.5	0.26	0.9	3.5	26.5	7.98	1110
24X2.5	0.26	0.9	3.7	28.1	7.98	1330
27X2.5	0.26	0.9	3.8	29.5	7.98	1475
36X2.5	0.26	0.9	4.3	30.5	7.98	1900

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Size	Current Rating (A) Current Ratings for Heavy Duty Rubber Insulated (H07RN-F) According HD 516 S2						
mm²	NUMBER OF CORES						
	1		*2*	*3*		*4*	*5*
	2 cores loaded	3 cores loaded	2 cores loaded	2 cores loaded	3 cores loaded	3 cores loaded	3 cores loaded
4	34	30	34	35	29	30	30
6	43	38	43	44	36	37	38
10	60	53	60	62	51	52	54
16	79	71	79	82	67	69	71
25	104	94	105	109	89	92	94
35	129	117	-	135	110	114	-
50	162	148	-	169	138	143	-
70	202	185	-	211	172	178	-
95	240	222	-	250	204	210	-
120	280	260	-	292	238	246	-
150	321	300	-	335	273	NA	-
185	363	341	-	NA	NA	NA	-
240	433	407	-	NA	NA	NA	-
300	497	468	-	NA	NA	NA	-
400	586	553	-	-	-	-	-
500	670	634	-	-	-	-	-
630	784	742	-	-	-	-	-

Notes:

Ambient Air Temperature 30°C
The tabulated ratings are for cable run in free air
Single core cables are bunched (2 cables touching side by side and 3 cables in trefoil)

Temperature correction factors:

Ambient air temperature °C	30	35	40	45	50	55
Correction factor	1,0	0,91	0,82	0,71	0,58	0,41

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