

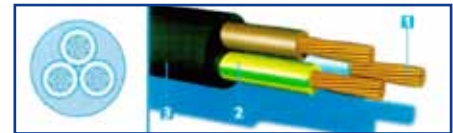
TECHNICAL DATA SHEET

H07RN8-F (UNE 21027 Part 16/HD 22.16) · Flexible cable 450/750 V, EPR insulation and PCP sheath; **water resistant, heavy metals free**

APPLICATIONS

Description:

- These EPR (ethylen-propylen rubber) insulated and special water resistant PCP (poly-chloroprene rubber or similar) sheathed electric cables can be used either in dry, humid or wet places, in contact with oil or grease, in weather conditions and under medium mechanical stress, for example power supply to equipment in industrial plants, large size boilers, machine shops, heating plates, portable lamps, electrical tools, drilling machines, disk saws, portable engines and machines, building and farming equipment etc. These cables are also suitable for stationary equipment, for example on plaster in temporary buildings and builders huts, wiring in machinery elevators or similar. Also suitable for caravans and camping equipment.
- Recommended for non stationary household appliances or devices in contact with oil or grease, such as barbecues, deep fryers and portable machines and tools.
- Particularly recommended for use in natural water until 10 meters deep and a maximum temperature of 40 °C; as example: connection of submersible bombs or similar applications.



Environmental protection:

These insulated and sheathed elastomers materials do not content heavy metals (like lead, cadmium, mercury, chrome, selenium), PBBE (polybromium-biphenyls), CFC/HCFC (chlorofluoryhydrocarbons), asbestos or any health dangerous or hazardous substance.

These materials fulfill RoHS Directive 2002/95/EC.

Comments:

Cables for permanent outdoor use only in black colour. Please consult for different colours.

Resistant to:

Oil and grease in general, ozone, oxygen, UV rays and good water and rain resistance.

Natural water until 10 meters deep and a maximum temperature of 40 °C; as example: connection of submersible bombs or similar applications.

CONSTRUCTION

<i>Standard of reference</i>	HD 22.16 / UNE 21027-16
<i>Conductor (1)</i>	Wires of plain annealed copper. Class 5 (HD 383).
<i>Insulation (2)</i>	Special EPR rubber type EI4 of HD 22.1 and requirements of HD 22.16
<i>Standard core colour (2)</i>	HD 308 / UNE 21089-1
<i>Sheath (3)</i>	PCP rubber type EM2 of HD 22.1 and requirements of HD 22.16
<i>Sheath colour (3)</i>	Normally black
<i>Marking</i>	printed by yellow ink, AENOR ◁HAR▷ H07RN8-F coreGsection FURAS “

TECHNICAL FEATURES

<i>Rated voltage</i>	H07RN8-F U ₀ /U: 450/750 V
<i>Voltage test</i>	H07RN8-F 2500 V
<i>Resistance of conductor at 20 °C</i>	HD 383/UNE 21022
<i>Limiting conditions</i>	HD 516 (Temperature °C)
<i>Operating cond., max.</i>	Normal: +60 Short circuit: +200
<i>At cable surface, max.</i>	+50
<i>Installation and handling, min.</i>	-25
<i>Storage ambient, max.</i>	+40

Note: Some characteristics and values are indicative and they can be modified without notice, as long as they remain in compliance with the standards.

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H07RN8-F (UNE 21027 Parte 16 / HD 22.16)									
Flexible cable 450/750 V, EPR insulation and Water Resistant PCP sheath									
Cores x size n° x mm ²	① CONDUCTOR		INSULATION			f JACKET			Weight of cable approx. Kg / km
	Min. strands n°	Max. Ø of wires mm	Min. Nominal thickness mm	Min. thickness at any point mm	Outer diameter -0,05 +0,10 mm	Min. Nominal thickness mm	Min. thickness at any point mm	Outer diameter -0,10 +0,20 mm	
H07RN8-F									
2 x 1	See next class conductors table		0,8	0,62	2,80	1,3	1,01	8,20	93
3 G 1		0,8	0,62	2,80	1,4	1,09	8,90	113	
4 G 1		0,8	0,62	2,80	1,5	1,18	9,80	138	
5 G 1		0,8	0,62	2,80	1,6	1,26	10,80	178	
2 x 1,5		0,8	0,62	3,05	1,5	1,18	9,10	117	
3 G 1,5		0,8	0,62	3,05	1,6	1,26	9,80	143	
4 G 1,5		0,8	0,62	3,05	1,7	1,35	10,85	176	
5 G 1,5		0,8	0,62	3,05	1,8	1,43	11,90	225	
2 x 2,5		0,9	0,71	3,70	1,7	1,35	10,85	172	
3 G 2,5		0,9	0,71	3,70	1,8	1,43	11,65	209	
4 G 2,5		0,9	0,71	3,70	1,9	1,52	12,80	256	
2 x 4		1,0	0,80	4,45	1,8	1,43	12,55	237	
3 G 4		1,0	0,80	4,45	1,9	1,52	13,45	290	
Conductors colour:									
<i>With yellow-green core</i>									
<i>Without yellow-green core</i>									
<i>Special applications</i>									
2 cores: Blue and Brown									
3 cores: Blue, Brown and Yellow-Green									
4 cores: Brown, Black, Yellow-Green and Grey									
5 cores: Blue, Brown, Black, Grey and Yellow-Green									
Blue and Brown									
Brown, Black and Grey									
Blue, Brown, Black and Grey									
Blue, Brown, Black, Grey and Black									
Blue, Brown and Black									
Blue, Brown, Black and Yellow-Green									
Note 1: If the cables is 0,15 mm diameter wires (class 6) the rest of the characteristics will be the same									
Others features:									
Temperature rating: 60 °C									
Spark test: In accordance with HD 22.2 Clause 2.6									
Voltage test on completed cable: In accordance with HD 22.2 Clause 2.2 2.500 V (a.c.)/15' (Imersed in water 1 h./20 °C/20 m.)									
Voltage test on cores: In accordance with HD 22.2 Clause 2.3 2.500 V (a.c.)/5' exceeding 0,6 mm thickness of insulation (Imersed in water 1 h./20 °C/5 m.)									

FLEXIBLE CLASS COPPER CONDUCTORS				
Standards agreement: HD 383 / IEC 228 / UNE 21022				
Nominal section (mm ²)	Max. Ø of wires (mm)		Max. electrical resistance at 20 °C (Ω/km)	
	Class 5	Class 6	Plain annealed	Tin coated
0,5	0,21	0,16	39,0	40,1
0,75	0,21	0,16	26,0	26,7
1	0,21	0,16	19,5	20,0
1,5	0,26	0,16	13,3	13,7
2,5	0,26	0,16	7,98	8,21
4	0,31	0,16	4,95	5,09
Remarks:				
- The number of wires and pitch of lay is not defined.				