

H07RN-F 450/750V CPR E

Rubber insulated flexibe cables



E_{ca}
CPR

Suitable for use in dry, humid or moist rooms and outdoor for transportable motors or machines on building sites or in agricultural works, including explosive or flammable atmosphere. Not suitable for applications involving permanent immersion in water. Used for medium and heavy mechanical loads, in dry and wet areas, also outdoor. Could be installed under or on plaster, in rocks, concrete, but not in pre-stressed concrete. Permitted fixed laying on crane and machine elements etc. Permitted voltages up to 1000 V AC at protected laying in tubes or devices, and as connecting rotor cable for engines. Also suitable for cooling installations. Resistant to oil, ozone and UV irradiation.

STANDARDS AND CERTIFICATIONS



EN 50525-2-21

LV cables for rated voltages up to and including 450/750 V; Part 2-21: Cables for general applications - Flexible cables with crosslinked elastomeric insulation

EN/IEC 60332-1-2

Test for vertical flame propagation for a single insulated wire or cable

CABLE DESIGN

Conductor material	Copper
Conductor surface	Bare
Core identification (acc. HD 308 S2)	Yes
Core insulation material	EPR rubber
Material outer sheath	EPR rubber
Cable shape	Round

ELECTRICAL & THERMAL PARAMETERS

Rated voltage U ₀ /U (U _m)	450/750 V
Test voltage [kV]	2.5
Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250
Ambient temperature fix installation (min) [°C]	-40
Ambient temperature fix installation (max) [°C]	50
Laying temperature (min) [°C]	-25

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CHEMICAL PROPERTIES

Flame retardant	In accordance with EN/IEC 60332-1-2
CPR reaction to fire	Eca
Oil resistant	acc. IEC/EN 60811-404
Ozone resistance	Yes
Resistant to UV	Yes
Silicon free	Yes
Lead free	Yes

CHARACTERISTICS

Moisture resistance	Yes
Outdoor installation	Yes
Underground installation	No
Bending radius (rule)	During installation: 4-8 x D

SUSTAINABILITY COMMITMENT

Our commitment to a low-carbon future remains unwavering as we strive to create sustainable solutions while upholding quality standards. We prioritize sustainability and environmental protection in our daily operations, collaborating with local communities to ensure workplace safety and safeguard the areas we operate in.

Sustainability and environmental responsibility is evident also in our **packaging** solutions across the CEE region. We use fully recyclable drum cover foils to minimize environmental impact. Our packaging for rings is made from 30% recycled materials, supporting a circular economy. Additionally, our boxes are made from recyclable, environment-friendly cardboard, promoting eco-conscious choices. By choosing Prysmian, you are not only selecting high-quality products but also contributing to a greener future.

Check for more details about our sustainability commitment here: [Sustainability report and responsibility](#).



CABLE PROPERTIES

Basic construction	SAP code	Colour outer sheath	Nominal outer diameter [mm]	Cable weight [kg/km]	Conductor resistance at 20° C [Ohm/km]	Short circuit current conductor (Isec) [kA]	DOP number
1x1,5	20219797	Black	5.8	47	13.3	0.26	1003569
1x2,5	20223297	Black	6.4	61	7.98	0.41	1003569
1x10	20224577	Black	9.9	179	1.91	1.53	1003569
1x16	20221167	Black	11.2	245	1.21	2.41	1003569
1x25	20223307	Black	13	352	0.78	3.73	1003569
1x35	20223310	Black	15.3	483	0.554	5.19	1003569
1x50	20272773	Black	17.7	672	0.386	7.37	1003569
1x70	20223318	Black	19.1	886	0.272	10.27	1003569
1x95	20223320	Black	21.3	1,134	0.206	13.88	1003569
1x120	20223322	Black	23.7	1,423	0.161	17.5	1003569
1x150	20224082	Black	26.2	1,771	0.129	21.83	1003569
1x185	20224080	Black	30	2,075	0.106	26.88	1003569
1x240	20272642	Black	31	2,703	0.0801	34.8	1003569
1x300	20219815	Black	36.5	3,300	0.0641	43.44	1003569
2x1	20219821	Black	8	84	19.5	0.18	1003568
2x1,5	20223327	Black	8.9	107	13.3	0.26	1003568
2x2,5	20219833	Black	10.5	153	7.98	0.26	1003568
2x4	20223331	Black	12.2	212	4.95	0.64	1003568
2x6	20223336	Black	13.6	278	3.3	0.94	1003568
3G1	20219840	Black	8.6	101	19.5	0.18	1003568
3G1,5	20219845	Black	9.6	129	13.3	0.26	1003568
3G2,5	20219856	Black	11.3	185	7.98	0.41	1003568
3G4	20219868	Black	13.1	259	4.95	0.64	1003568
3G6	20223354	Black	14.6	342	3.3	0.94	1003568
3G10	20223389	Black	19.9	595	1.91	1.53	1003568
3G16	20219941	Black	22.7	806	1.21	2.41	1003568
4G1	20295745	Black	9.5	126	19.5	0.18	1003568
4G1,5	20219884	Black	10.6	159	13.3	0.26	1003568
4G2,5	20219889	Black	12.4	230	7.98	0.41	1003568
4G2,5	20219886	Black	12.4	230	7.98	0.41	1003568
4G4	20219897	Black	14.3	325	4.95	0.64	1003568
4G4	20219894	Black	14.3	325	4.95	0.64	1003568
4G6	20219899	Black	16.2	437	3.3	0.94	1003568
4G6	20219901	Black	16.2	437	3.3	0.94	1003568
4G10	20219947	Black	21.8	749	1.91	1.53	1003568
4G10	20219945	Black	21.8	749	1.91	1.53	1003568

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4G16	20219948	Black	24.8	1,147	1.21	2.41	1003568
4G16	20267583	Black	24.8	1,147	1.21	2.41	1003568
4G25	20224113	Black	29.6	1,505	0.78	3.73	1003568
4G35	20223426	Black	34	2,268	0.554	5.19	1003568
4G50	20223431	Black	40.2	2,831	0.386	7.37	1003568
4G50	20219969	Black	40.2	2,831	0.386	7.37	1003568
4G70	20223433	Black	43.5	3,720	0.272	10.27	1003568
4G95	20223434	Black	49	4,818	0.206	13.88	1003568
4G120	20219957	Black	54.1	5,940	0.161	17.5	1003568
5G1	20220823	Black	10.5	154	19.5	0.18	1003568
5G1,5	20219907	Black	11.6	193	13.3	0.26	1003568
5G2,5	20219913	Black	13.7	278	7.98	0.41	1003568
5G4	20219926	Black	16	401	4.95	0.64	1003568
5G6	20219932	Black	17.7	533	3.3	0.94	1003568
5G6	20219930	Black	17.7	533	3.3	0.94	1003568
5G10	20219960	Black	24	921	1.91	1.53	1003568
5G16	20219962	Black	27.5	1,272	1.21	2.41	1003568
5G35	20223450	Black	38.1	2,524	0.554	5.19	1003568
5G70	20219974	Black	48.5	4,706	0.272	10.27	1003568
5G95	20219975	Black	54.2	6,051	0.206	13.88	1003568
7G1,5	20219976	Black	15	314	13.3	0.26	1003568
7G2,5	20223458	Black	17.4	439	7.98	0.41	1003568
12G1,5	20236495	Black	17.8	469	13.3	0.26	1003568

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