NAYY 0,6/1KV CPR E

Low voltage cables with PVC sheath

E_{ca} CPR

Low voltage cables for AC and DC network, industrial installation, switching equipment, local pipelines where mechanical protection is not required during installation and operation, and where the PVC sheat is not attacked by corrosive agents. Can be used as connection cables inside wind power stations. These cables can be layed: in gound, in tube, free in air, in concrete and indoors.
Conductor shape round or sector, class 1=solid or class 2 = stranded; black outer sheath

STANDARDS AND CERTIFICATIONS

RoHS

HD 603	Distribution cables of rated voltage 0,6/1 kV
EN 13501-6	Fire classification of construction products and building elements

CABLE DESIGN

Conductor material	Aluminium
Core identification (acc. HD 308 S2)	Yes
Core insulation material	Polyvinyl chloride (PVC)
Material outer sheath	Polyvinyl chloride (PVC)
Cable shape	Round

ELECTRICAL & THERMAL PARAMETERS

Nominal voltage U0 [V]	600
Nominal voltage U [V]	1,000
Nominal voltage DC U [V]	1,500
Max. voltage DC Um [V]	1,800
Test voltage [kV]	4
Rated voltage U0/U (Um)	0.6/1 (1.2) kV
Max. conductor temperature [°C]	70
Max. conductor temperature at short circuit [°C]	160
Laying temperature (min) [°C]	-5
Laying temperature (max) [°C]	50

CHEMICAL PROPERTIES

Flame retardant	In accordance with EN/IEC 60332-1-2
CPR reaction to fire	Eca
Resistant to UV	Yes
UV resistant	Yes
Silicon free	Yes
Lead free	Yes

CHARACTERISTICS

Outdoor installation	Yes
Underground installation	Yes
Suitable as installation cable	Yes
Bending radius (rule)	During installing: 15 x D single-core cables; 12 x D multi-cores cables

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	Type	SAP code	Variant	Nominal outer diameter [mm]	Cable weight [kg/km]	Bending radius, during laying (min) [mm]	Conductor resistance at 20° C [Ohm/km]	Short circuit current conductor (1sec) [kA]	DOP number
1x70RM	-O	20224751	Talc	16.9	413	254	0.443	5.4	1005203
1x95RM	-O	20224752	Talc	18.7	526	281	0.32	7.4	1005203
1x120RM	-O	20224742	Talc	20.1	611	302	0.253	9.3	1005203
1x150RM	-O	20224743	Talc	22	726	330	0.206	11.6	1005203
1x185RM	-J	133010100072		23.3	885	350	0.164	14.3	1005203
1x185RM	-O	20224747	Talc	24	878	360	0.164	14.3	1005203
1x240RM	-J	20217215		26.8	1,093	402	0.125	18.5	NAYY-SC-RP
1x240RM	-O	20224748	Talc	26.8	1,096	402	0.125	18.5	1005203
1x300RM	-J	20217216		29.6	1,356	443	0.1	23.1	NAYY-SC-RP
1x300RM	-O	20224749	Talc	29.6	1,359	443	0.1	23.1	1005203
1x400RM	-O	20224750	Talc	33.1	1,698	497	0.0778	38.3	1005203
1x500RM	-O	33010100069	Talc	36.7	2,116	440	0.0605	47.8	1005203
1x630RM	-O	133010100066		40.3	2,608	605	0.0469	60.2	1005203
2x16RE	-J	20224676	Extruded	18.8	527	225	1.91	1.3	1005202
2x25RE	-J	20224677	Extruded	21.8	724	262	1.2	2	1005202
3x16RM	-O	20224753	Extruded	20.6	621	247	1.91	1.3	1005202
3x25RM/16RE	-J	133010101001	Extruded	25.4	768	305	1.2	2	1005202
3x25RM	-O	20224754	Extruded	24.3	871	291	1.2	2	1005202
3x35RM/16RE	-J	133010101002	Extruded	27.3	892	328	0.868	2.7	1005202
3x50SM/25RM	-J	133010101025	Extruded	30.3	0	364	0.641	3.9	1005202
3x70SM/35SM	-O	20224756	Extruded	32.8	1,522	394	0.443	5.4	1005205
3x70SM/35RM	-J	20224682	Extruded	32.8	1,651	394	0.443	5.4	1005205
3x95SM/50RM	-J	20224683	Extruded	39.1	2,225	469	0.32	7.4	1005205
3x120SM/70RM	-J	20224678	Extruded	42.8	2,722	513	0.253	9.3	1005205
3x150SM/70RM	-J	20224679	Extruded	46.8	3,236	562	0.206	11.6	1005205
3x185SM	-O	133030000010	Extruded	45.7	3,091	548	0.164	14.3	1005205
3x185SM/95RM	-J	20224680	Extruded	51.5	3,940	618	0.164	14.3	1005205
3x240SM	-O	133030000011	Extruded	51.1	3,900	613	0.125	18.5	1005205
3x240SM/120RM	-J	20224681	Extruded	58	5,038	696	0.125	18.5	1005205
3x300SM	-O	133030000013	Extruded	56.3	4,666	676	0.1	28.8	1005205
4x16RE	-J	20224697	Extruded	21.5	688	258	1.91	1.3	1005202
4x16RM+1,5	-J	20224698	Extruded	22.4	736	268	1.91	1.3	1005202
4x16RM+2,5	-J	20224699	Extruded	22.4	746	268	1.91	1.3	1005202
4x25RE	-J	20224711	Extruded	25.2	959	302	1.2	2	1005202
4x25RM+2,5	-J	20224714	Extruded	26.5	1,039	318	1.2	2	1005202

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4x35RE	-J	20224715	Extruded	27.5	1,164	330	0.868	2.7	1005202
4x35RM+1,5	-J	20224717	Extruded	28.9	1,241	346	0.868	2.7	1005202
4x50SE	-J	20224719	Extruded	29.1	1,278	349	0.641	3.9	1005204
4x50RM	-J	20224718	Extruded	32.9	1,627	395	0.641	3.9	1005202
4x70SM	-J	20224731	Extruded	33	1,670	396	0.443	5.4	1005204
4x70SM+1,5	-J	20224732	Extruded	33	1,676	396	0.443	5.4	1005204
4x95SE	-J	20224733	Extruded	37.5	2,165	450	0.32	7.4	1005204
4x120SM	-J	20224685	Extruded	43	2,718	516	0.253	9.3	1005204
4x150SM	-J	20314302	Extruded	47	3,208	564	0.206	11.6	1005204
4x150SM+1,5	-J	20224692	Extruded	47	3,207	564	0.206	11.6	1005204
4x185SM	-J	20224700	Extruded	51.9	3,927	623	0.164	14.3	1005204
4x240SM	-J	20224703	Extruded	58.2	4,971	699	0.125	18.5	1005204

CURRENT CARRYING CAPACITY

Cross-section (mm²)	Direct in ground single-core DC (A)	Direct in ground multi-cores (A)	Direct in ground single-core trefoil (A)	Air single-core DC (A)	Air multi-cores (A)	Air single-core trefoil (A)
16	-	-	-	-	-	-
25	160	102	106	110	82	87
35	193	23	127	135	100	107
50	230	144	151	166	119	131
70	283	179	185	210	152	166
95	340	215	222	259	186	205
120	389	245	253	302	216	239
150	436	275	284	345	246	273
185	496	313	322	401	285	317
240	578	364	375	479	338	378
300	656	419	425	555	400	437
400	756	484	487	653	472	513
500	873	553	558	772	539	600
630	1011	-	635	915	-	701
800	1166	-	716	1080	-	809
1000	1332	-	796	1258	-	916

Ground temperature: 20°C; Air temperature: 30°C
Depth of laying: 0,7 m; Soil resistivity, moist: 1 K.m/W