

NYY 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 sheath is not attacked by corrosive agents. These cables can be laid: in ground, in tube, free in air, indoors, in concrete and in water. Conductor shape sector, class 2 = stranded; black outer sheath

STANDARDS AND CERTIFICATIONS

RoHS



EN 60228
HD 603
EN 13501-6

Conductors of insulated cables
Distribution cables of rated voltage 0,6/1 kV
Fire classification of construction products and building elements

CABLE DESIGN

Conductor material	Copper
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 U ₀ [V]	600
Nominal voltage U [V]	1,000
Test voltage [kV]	4
Rated voltage U ₀ /U (U _m)	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

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CHEMICAL PROPERTIES

Flame retardant	In accordance with EN 13501-6
CPR reaction to fire	Eca
Resistant to UV	Yes
UV resistant	Yes
Silicon free	Yes
Lead free	Yes

CHARACTERISTICS

Outdoor installation	Yes
Suitable for concrete 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
1x16RE	-O	20197406	Talc	10.7	257	161	1.15	1.9	1002072
1x16RM	-O	20197419	Talc	11	259	164	1.15	1.9	1002072
1x25RM	-J	20197431	Extruded	12.5	370	188	0.727	3	1002072
	-J	20209566	Talc	12.49	214	75	0.727	3	1001567
1X35RMV	-O	20209587	Talc	13.5	461	81	0.524	4.17	1001567
1x35RM	-O	20203295	Talc	13.6	470	204	0.524	4.1	1002072
1X50RMV	-O	20209589	Talc	15.1	605	91	0.387	5.92	1001567
1x50RM	-O	20197408	Talc	15.3	612	230	0.387	8.3	1002072
1X70RMV	-O	20209591	Talc	16.8	812	101	0.268	8.25	1001567
1x70RM	-O	20197417	Extruded	17.1	824	257	0.268	8.2	1002072
1X95RMV	-O	20209593	Talc	18.9	1,087	113	0.193	11.16	1001567
1x95RM	-O	20197410	Talc	18.9	1,095	284	0.193	11.1	1002072
1x120RM	-O	20197411	Talc	20.1	1,325	302	0.153	14	1002072
1x150RMV	-O	20209597	Talc	22.1	1,605	133	0.124	17.54	1001567
1x150RM	-O	20197412	Talc	22	1,606	330	0.124	17.4	1002072
1x185RMV	-O	20209599	Talc	24.2	1,982	145	0.0991	21.6	1001567
1x185RM	-O	20197413	Talc	24.1	1,984	362	0.0991	21.5	1002072
1X240RMV	-O	20209601	Talc	27	2,563	162	0.0754	27.97	1001567
1x240RM	-O	20197404	Talc	27	2,563	404	0.0754	34.8	1002072
1x300RM	-O	20197415	Talc	29.7	3,169	445	0.0601	43.4	1002072
1x400RM	-O	20197416	Extruded	33.1	4,017	497	0.047	41.4	1002072
1x500RM	-O	20197418	Extruded	36.7	5,217	551	0.0366	51.7	1002072
3x16RM	-J	128010101100	Extruded	19.9	893	239	1.15	1.9	1002069
3x25RM/16RE	-J	20197386	Tape	23.9	1,176	287	0.727	3	1002069
3x25RM	-J	20315221	Extruded	24.1	1,300	289	0.727	3	1002069
3X35SM/1X16RM	-J	20209641	Extruded	25.2	1,681	151	0.524	4.17	1001565
3x35SM/16RM	-J	20233737	Extruded	26	1,708	312	0.524	4.1	1006542
3x35RM/16RM	-J	20316344	Tape	26	1,466	312	0.524	4.1	1002069
3X50SM/1X25RM	-J	20209642	Extruded	30.8	2,313	185	0.387	5.92	1001565
3x50SM/25RM	-J	20233739	Tape	27.9	1,977	335	0.387	5.9	1006542
3x50RM/25RM	-J	20316345	Tape	30.1	1,993	361	0.387	5.9	1002069
3x70SM/35SM	-J	20196095	Tape	32.5	2,740	195	0.268	8.25	1001566
3x70SM/35RM	-J	20233741	Tape	32.7	2,698	393	0.268	8.2	1006542
3x70RM/35RM	-J	20316347	Tape	34.5	2,724	414	0.268	8.2	1002069
3x95SM/50SM	-J	20196096	Tape	36.8	3,759	221	0.193	11.16	1001566

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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 (1sec) [kA]	DOP number
3x95SM/50RM	-J	20233743	Tape	36.3	3,683	436	0.193	11.1	1006542
3X120SM/70SM	-J	20196097	Tape	39.6	4,670	238	0.153	14.06	1001566
3x120SM/70RM	-J	20258191	Talc	38.9	4,586	467	0.153	14	1006542
3X150SM/70SM	-J	20196098	Tape	43.9	5,603	263	0.124	17.54	1001566
3x150SM/70RM	-J	20355529	Tape	41.5	5,463	498	0.124	17.4	1006542
3X185SM/95SM	-J	20196099	Tape	48.6	7,040	292	0.0991	21.6	1001566
3x185SM/95RM	-J	20355530	Tape	46.9	6,928	563	0.0991	21.5	1006542
3X240SM/120SM	-J	20209691	Tape	54.7	9,112	328	0.0754	27.97	1001566
3X240SM/120RM	-J	20258194	Tape	55.9	9,007	671	0.0754	27.8	1006542
4x16RM	-J	20197422	Extruded	22.2	1,084	267	1.15	1.9	1002069
4X25RMV	-J	20209634	Extruded	25.9	1,573	155	0.727	3	1001564
4x25RM	-J	20197446	Tape	24.9	1,364	299	0.727	3	1002069
4X35SM	-J	20209646	Tape	25	1,676	150	0.524	4.17	1001566
4x35SM	-J	20197423	Tape	24.8	1,645	298	0.524	4.1	1002071
4x50SM	-O	20315218	Tape	27.9	2,194	335	0.387	5.9	1002071
4x50SM	-J	20197424	Tape	28.9	2,206	347	0.387	5.9	1002071
4X50SM	-J	20209648	Tape	30.1	2,254	181	0.387	5.92	1001566
4x70SM	-J	20197425	Tape	32.9	3,032	395	0.268	8.2	1002071
4x70SM	-J	20196100	Tape	34.3	3,113	206	0.268	8.25	1001566
4x95SM	-J	20197426	Tape	36.4	4,139	437	0.193	11.1	1002071
4x95SM	-J	20196101	Tape	39.1	4,242	235	0.193	11.16	1001566
4x120SM	-J	20197427	Tape	38.1	5,073	457	0.153	14	1002071
4x150SM	-J	20197428	Tape	41.7	6,240	501	0.124	17.4	1002071
4x185SM	-J	20197429	Tape	47.1	7,823	566	0.0991	21.5	1002071
4x240SM	-J	20197430	Tape	56.2	10,272	675	0.0754	27.8	1002071
5x16RM	-J	20197445	Tape	23.1	1,143	277	1.15	1.9	1002069
5X25RMV	-J	20195723	Extruded	28.1	1,934	169	0.727	3	1001564
5x25RM	-J	20197436	Tape	27.3	1,704	328	0.727	3	1002069
5X35RM	-J	20209619	Extruded	31.2	2,516	187	0.524	4.17	1001564
5x35RM	-J	20197437	Tape	30.1	2,214	361	0.524	4.1	1002069
5X50RMV	-J	20209622	Extruded	36.6	3,438	220	0.387	5.92	1001564
5x50RM	-J	20197438	Tape	34.8	2,979	418	0.387	5.9	1002069
5x70RMV	-J	20209624	Extruded	41.2	4,632	247	0.268	8.25	1001564
5x70RM	-J	20197439	Tape	40	4,092	479	0.268	8.2	1002069
5X95RMV	-J	20209626	Extruded	47.6	6,310	286	0.193	11.16	1001564

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5x95RM	-J	20197440	Tape	45.4	5,579	545	0.193	11.1	1002069
5x120RM	-J	20197441	Tape	48.9	6,823	587	0.153	14	1002069
5x150RM	-J	20197442	Tape	54.2	8,380	651	0.124	17.4	1002069
5X185RM	-J	128010101103	Tape	59.9	10,420	719	0.0991	21.5	1002069
5X240RM	-J	128010101104	Tape	68.4	13,658	821	0.0754	27.8	1002069

CURRENT CARRYING CAPACITY

Cross-section (mm ²)	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	160	102	107	107	79	84
25	208	133	138	144	106	114
35	250	159	164	176	129	139
50	296	188	195	214	157	169
70	365	232	238	270	199	213
95	438	280	286	334	246	264
120	501	318	325	389	285	307
150	563	359	365	446	326	352
185	639	406	413	516	374	406
240	746	473	479	618	445	483
300	848	535	541	717	511	557
400	975	613	614	843	597	646
500	1125	687	693	994	669	747
630	1304	-	777	1180	-	858
800	1507	-	859	1396	-	971
1000	1715	-	936	1620	-	1078

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