

N2XS(F)2Y 6/10KV CPR F

Copper medium voltage cables 10kV



F_{ca}
CPR

Single-phase medium voltage cables with copper conductors for industrial installations and electrical stations. The cables are suitable to be laid direct buried, in ducts, in water, outdoor above ground and indoor. It has to be considered that the cables are not flame retardant. The ingress of water in case of a damaged outer sheath is limited by the longitudinal watertight screen area.

Conductor shape round, class 2 = stranded; black outer sheath

STANDARDS AND CERTIFICATIONS



RoHS



EN 60228

DIN VDE 0276-620

EN 60754-1

Conductors of insulated cables

Distribution cables for rated voltages from 3,6/6(7,2) up to and including 20,8/36(42) kV

Test on gases evolved during combustion of materials from cables. Halogen acid gas content.

CABLE DESIGN

Conductor material	Copper
Core insulation material	XLPE
Screen construction	Wire screen and counterhelix tape
Screen material	Copper, bare
Longitudinal water blocking screen	Yes
Longitudinal water blocking cable	Yes
Longitudinal water blocking construction	Water swellable tape(s)
Material outer sheath	HDPE
Cable shape	Round

ELECTRICAL & THERMAL PARAMETERS

Nominal voltage U ₀ [V]	6,000
Nominal voltage U [V]	10,000
Test voltage [kV]	21
Rated voltage U ₀ /U (U _m)	6/10 (12) kV
Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250
Laying temperature (min) [°C]	-20
Laying temperature (max) [°C]	50

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CHEMICAL PROPERTIES

CPR reaction to fire	Fca
Halogen free	acc. IEC/EN 60754-1/2
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

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	Nominal thickness insulation [mm]	Nominal diameter over insulation [mm]	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]	Short circuit current screen (1sec) [kA]	DOP number
1x70RM/16	20181687	3.4	17.5	26.2	1,135	393	0.268	10.3	2.6	1003520
1x95RM/16	20181688	3.4	19.2	28	1,394	420	0.193	13.9	2.6	1003520
1x120RM/16	16020305004	3.4	20.4	29.4	1,624	441	0.153	17.5	2.6	1003520
1x150RM/25	20217392	3.4	21.8	30.8	1,972	462	0.124	21.8	4.1	1003520
1x185RM/25	16020305007	3.4	23.4	32.3	2,330	485	0.0991	26.9	4.1	1003520
1x240RM/25	20272574	3.4	26	34.9	2,886	524	0.0754	34.8	4.1	1003520
1x300RM/25	16020305009	3.4	28.6	37.3	3,464	560	0.0601	43.4	4.1	1003520
1x400RM/35	16020305010	3.4	31.4	40.6	4,351	609	0.047	5,708	5.9	1003520
1x500RM/35	16020305029	3.4	34.4	43.6	5,488	654	0.0366	72.2	5.9	1003520
1x630RM/35	16020305016	3.4	37.7	46.5	6,602	698	0.0283	90.9	5.9	1003520

CURRENT CARRYING CAPACITY

Cross-section (mm²)	Direct in ground trefoil (A)	Direct in ground flat spaced (A)	Air trefoil (A)	Air flat spaced (A)
70	268	302	294	350
95	320	359	358	426
120	363	405	413	491
150	405	442	468	549
185	456	493	535	625
240	526	563	631	731
300	591	626	722	831
400	662	675	827	920
500	744	748	949	1043
630	830	811	1082	1158
800	910	870	1215	1265
1000	980	917	1331	1350

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

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