

NA2XS(F)2Y 20,8/36KV CPR F

Aluminium medium voltage cables 36kV



F_{ca}
CPR

Medium voltage cables with aluminium conductors for rated voltages from 6 kV ($U_m = 7,2$ kV) up to 30 kV ($U_m = 36$ kV). Suitable for outdoor applications such as industrial installations and electrical stations, for laying underground, in trench or in ducts or in air. 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.

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

STANDARDS AND CERTIFICATIONS



RoHS



DIN VDE 0295 / DIN EN 60228 / IEC 60228
DIN VDE 0276-620

HD 620 S3:2023

IEC 60502-2

EN 60754-1

Conductor

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

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

Cables for rated voltages from 6 kV ($U_m = 7,2$ kV) up to 30 kV ($U_m = 36$ kV)

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

CABLE DESIGN

Conductor material	Aluminium
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]	20,800
Nominal voltage U [V]	36,000
Test voltage [kV]	72.8
Rated voltage U_0/U (U_m)	20.8/36 (42) 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
Suitable for concrete installation	No
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	16040105001	8.8	28.3	38.4	1,323	576	0.443	6.8	2.6	1003520
1x95RM/16	16040105002	8.8	29.6	40.4	1,429	606	0.32	9.2	2.6	1003520
1x120RM/16	16040105003	8.8	31.3	41.8	1,592	627	0.253	11.6	2.6	1003520
1x150RM/25	16040105004	8.8	32.6	43.8	1,785	657	0.206	14.5	4.1	1003520
1x185RM/25	16040105005	8.8	34.4	45.3	2,000	680	0.164	17.9	4.1	1003520
1x240RM/25	20278728	8.8	37	49.6	2,250	744	0.125	23.1	4.1	1003520
1x300RM/25	16040105007	8.8	39.5	50.8	2,571	762	0.1	28.8	4.1	1003520
1x400RM/35	16040105008	8.8	42.2	54.7	2,973	821	0.0778	38.3	5.9	1003520
1x500RM/35	16040105009	8.8	45.4	57.2	3,486	858	0.0605	47.8	5.9	1003520
1x630RM/35	16040105010	8.8	48.5	61.5	3,960	923	0.0469	60.2	5.9	1003520
1x800RM/35	16040105011	8.8	52.8	65.1	4,730	977	0.0367	76.5	5.9	1003520
1x1000RM/35	16040105012	8.8	57.1	69.6	5,516	1,044	0.0291	95.3	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	213	238	232	273
95	254	283	282	331
120	289	321	325	382
150	322	354	367	429
185	364	399	421	492
240	422	458	496	578
300	476	514	568	659
400	541	570	659	750
500	616	642	764	861
630	700	710	883	971
800	784	773	1006	1080
1000	871	837	1138	1191

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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