

PROTOTHEN X NA2XSY 12/20KV

Distribution and interconnection cable.



Distribution and interconnection cable for industry and power generation networks. Laying: in ground, in tubes, free in air, indoors and in water. DoP code:1004344

STANDARDS



IEC 60502-2 DIN VDE 0276-620 DIN EN 50575

CABLE DESIGN

Conductor Conductor material Conductor surface Core insulation material Screen construction Screen material Material outer sheath Cable shape General General Fire performance

Aluminium: round, stranded, class 2 Aluminium Bare XLPE Wire screen and counterhelix tape Copper, bare Polyvinyl chloride (PVC) Round

ELECTRICAL & THERMAL PARAMETERS

Rated voltage U0/U (Um)	12/20 (24) kV
Test voltage [kV]	42
Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250
Laying temperature (min) [°C]	-5

CHARACTERISTICS

Outdoor installation Underground installation Permanent tensile strength (rule) Bending radius (rule) Yes Yes 30 N/mm² 15 x OD

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CHEMICAL PROPERTIES

CPR reaction to fire

Fca

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	Conductor resistance at 20° C [Ohm/km]	Nominal outer diameter [mm]	Cable weight [kg/km]	Short circuit current conductor (1sec) [kA]	Short circuit current screen (Isec) [kA]
1x50/16	20002587	0.641	29	900	4.7	3.3
1x95/16	20002588	0.32	32	1,100	8.93	3.3
1x120/16	20069061	0.253	33	1,250	11.3	3.3
1x150/25	20002589	0.206	35	1,450	14.1	5.1
1x240/25	20002590	0.125	39	1,850	22.6	5.1
1x300/25	20002591	0.1	41	2,050	28.2	5.1
1x400/35	20037998	0.0778	45	2,450	37.6	7.1

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CURRENT CARRYING CAPACITY

Basic construction	SAP Code	Current carrying capacity during normal operation, laid in the ground [A]	Current carrying capacity free in air [A]
1x50/16	20002587	172	185
1x95/16	20002588	251	280
1x120/16	20069061	285	323
1x150/25	20002589	319	366
1x240/25	20002590	417	496
1x300/25	20002591	471	569
1x400/35	20037998	535	660

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