

# 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

General

General

Fire performance

## CABLE DESIGN

Conductor	Aluminium: round, stranded, class 2
Conductor material	Aluminium
Conductor surface	Bare
Core insulation material	XLPE
Screen construction	Wire screen and counterhelix tape
Screen material	Copper, bare
Material outer sheath	Polyvinyl chloride (PVC)
Cable shape	Round

## ELECTRICAL & THERMAL PARAMETERS

Rated voltage U <sub>0</sub> /U (U <sub>m</sub> )	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	Yes
Underground installation	Yes
Permanent tensile strength (rule)	30 N/mm <sup>2</sup>
Bending radius (rule)	15 x OD

## 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](#).



**SUSTAINABLE  
DEVELOPMENT GOALS**



## 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 (Isec) [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

## 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