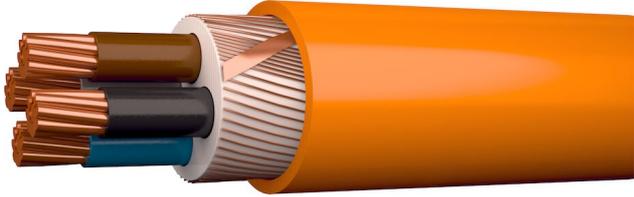


(N)HXCH SIENOPYR E30 FE180 1KV

Fire-resistant and screened installation cable for fixed installation



DESCRIPTION

Fire-resistant, halogen-free and screened installation cable for fixed application indoors in walls, trays, ducts and cement or outdoors in pipes. Suitable for areas that require circuit integrity during and after a fire. The cable is E30 fire resistant acc. to DIN 4102-12 up to minimum 30 minutes. The insulation is fire class FE180 acc. to DIN VDE 0472-814 and fire resistant in up to 90 minutes acc. to IEC 60331-21.

For further information or quotations please contact our sales responsible per phone no. 6039 2629 or e-mail dk-tid@prysmiangroup.com.

CERTIFICATION, APPROVAL & STANDARD

DIN VDE 0266	Halogen-free power cables up to 0,6/1kV with improved characteristics in the case of fire
DIN VDE 0276-604	Halogen-free power cables up to 0,6/1kV with improved characteristics in the case of fire
DIN VDE 4102-12	Fire test for circuit integrity of complete electrical or telecom cable systems
EN 50266-1 & -2-4	Fire test for vertical flame propagation of vertically-mounted bunched wires or cables
IEC 61034-2	Smoke Density - with requirement for light transmittance
IEC 60331-1	Tests for electric cables under fire conditions, for cables of rated voltage up to and including 0,6/1,0 kV and with an overall diameter exceeding 20 mm
IEC 60332-3-24	Fire test for vertical flame spread of vertically-mounted bunched wires or cables – Category C
IEC 60332-1	Fire test for vertical flame propagation for a single small insulated wire or cable - Procedure for 1 kW pre-mixed flame
ROHS	RoHS compliance - restriction of hazardous substances directive
REACH	Regulation concerning the Registration, Evaluation, Authorisation and Restriction of CHemicals.
IEC 60332-1 & 2	Fire tests for vertical flame propagation for a single insulated wire or cable - procedure for 1-kW pre-mixed flame

CONSTRUCTION

Conductor material	Copper
Conductor surface	Bare
Core insulation material	Silicone rubber
Core identification (acc. HD 308 S2)	Yes
Screen construction	Wire screen and counterhelix tape
Screen material	Copper, bare
Concentric conductor	Copper
Material inner sheath	Halogenfree polymer
Material outer sheath	Halogenfree polymer
Cable shape	Round

ELECTRICAL PROPERTIES

Nominal voltage U₀ [V]

600

FIRE PROPERTIES

Circuit integrity	E 30
Insulation integrity	FE 180
Insulation integrity (acc. IEC 60331)	Yes
Flame retardant	In accordance with EN/IEC 60332-1-2
Halogen free	acc. IEC/EN 60754-1/2
Low smoke	acc. IEC/EN 61034-2

THERMAL PROPERTIES

Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250
Max. outer temperature, fixed installation [°C]	5
Permitted cable outer temperature after assembling without vibration (max) [°C]	50
Permitted cable outer temperature during assembling/handling (min) [°C]	5
Permitted cable outer temperature during assembling/handling (max) [°C]	50

MECHANICAL PROPERTIES

Bending radius (rule)	12 x D
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APPLICATION PROPERTIES

UV resistant	No
Outdoor installation	Yes
Underground installation	No
Suitable as installation cable	Yes
Suitable as medium voltage cable	No
Suitable as high voltage cable	No
Certified for shipboard application	No
Certified as airport lighting cable	No

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All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian; any modification or alteration afterwards of product may give different result.

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This specification is not contractually valid unless specifically authorised by Prysmian.

DELIVERY INFORMATION

Basic construction	Cable weight [kg/km]	Standard packaging quantity	SAP code	EAN-code (GTIN)
4x35/16 mm ²	2,070	500	20002201	4250248100710
4x50/25 mm ²	2,730	500	20002202	4250248100598
4x70/35 mm ²	3,810	500	20002203	4250248100727
4x95/50 mm ²	5,100	500	20002204	4250248100734
4x120/70 mm ²	6,420	500	20002205	4250248100604

MECHANICAL AND ELECTRICAL DATA

Basic construction	Conductor category	Shape of conductor	Nominal outer diameter [mm]	Core colours	Current carrying capacity [A]
4x35/16 mm ²	Class 2 = stranded	Round	30	Yellow/Green, brown, black, grey	147
4x50/25 mm ²	Class 2 = stranded	Round	34	Yellow/Green, brown, black, grey	179
4x70/35 mm ²	Class 2 = stranded	Round	39	Yellow/Green, brown, black, grey	229
4x95/50 mm ²	Class 2 = stranded	Round	43	Yellow/Green, brown, black, grey	278
4x120/70 mm ²	Class 2 = stranded	Round	47	Yellow/Green, brown, black, grey	322

* Nominal values

* Current-carrying capacities according to IEC60364-5-52 method E or F