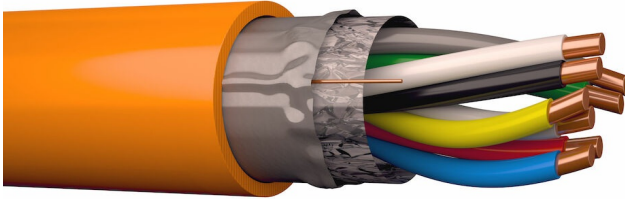


JE-H(ST)H SIENOPYR E30 FE180 225V

Fire-resistant and screened signal cable for fixed installation



DESCRIPTION

Fire-resistant, halogen-free and screened signaling cable for indoor fixed installation of fire alarms, detectors and emergency communications systems. During a fire the cable will uphold its circuit integrity for 30 minutes acc. to I DIN 4102-12.

JE-H(ST)H E30 225V is registered in the Ecolabel database over building materials, that can be used /included in Svanemærket certified buildings.

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

CERTIFICATION, APPROVAL & STANDARD

IEC 60331-2
EN 50200

Tests for electric cables under fire conditions below 20mm in diameter
Method of test for resistance to fire of unprotected small cables for use in emergency circuits

DIN VDE 4102-12

Fire test for circuit integrity of complete electrical or telecom cable systems

DIN VDE 0472-814

Testing of cables, wires and flexible cords; continuance of isolation effect under fire conditions

DIN VDE 0815
IEC 60331-21

Fire test for circuit integrity of data cables

Fire test for cable circuit integrity up to 0,6/1,0 kV - procedures and requirements - 120 min fire test

IEC 60332-1 & 2

Fire tests for vertical flame propagation for a single insulated wire or cable - procedure for 1-kW pre-mixed flame

IEC 60332-3-24

Fire test for vertical flame spread of vertically-mounted bunched wires or cables – Category C

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

EN 60228

Conductor standard

ROHS

RoHS compliance - restriction of hazardous substances directive

REACH

Regulation concerning the Registration, Evaluation, Authorisation and Restriction of CHemicals.

CONSTRUCTION

Conductor material

Copper

Conductor surface

Bare

Core insulation material

Halogenfree polymer

Drain wire

Yes

Screen construction

Metal tape

Screen material

Aluminium

Material outer sheath

Halogenfree polymer

Cable shape

Round

ELECTRICAL PROPERTIES

Nominal voltage U ₀ [V]	225
Nominal mutual capacitance [pF/m]	100
Capacitance unbalance (max) [pF/m]	200

FIRE PROPERTIES

Circuit integrity	E 30
Insulation integrity	FE 180
Insulation integrity (acc. IEC 60331)	Yes
Self-extinguishing	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
Reaction-to-fire class (acc. EN 13501-6)	Not applicable

THERMAL PROPERTIES

Max. conductor temperature [°C]	70
Permitted cable outer temperature after assembling without vibration (min) [°C]	30
Permitted cable outer temperature after assembling without vibration (max) [°C]	70
Permitted cable outer temperature during assembling/handling (min) [°C]	5
Permitted cable outer temperature during assembling/handling (max) [°C]	50

MECHANICAL PROPERTIES

Permanent tensile strength [N]	50
Bending radius (rule)	During installation with traction 7,5 x D Single bend without traction 2,5 x D

APPLICATION PROPERTIES

Outdoor installation	No
Underground installation	No
Suitable as telephone cable	Yes
Suitable as computer data cable	Yes
Suitable as signalling cable	Yes

DELIVERY INFORMATION

Basic construction	Conductor category	Colour outer sheath	Standard packaging quantity	Packaging type	SAP code	DOP number	EAN-code (GTIN)
2x2x0,8+0,8 mm	Class 1 = solid	Orange	500	Drum	20160178		4250248100567
4x2x0,8+0,8 mm	Class 1 = solid	Orange	500	Drum	20002235		4250248100550
8x2x0,8+0,8 mm	Class 1 = solid	Orange	500	Drum	20002236		4250248100673

MECHANICAL DATA

Basic construction	Number of cores	AWG size	Diameter conductor [mm]	Nominal outer diameter [mm]	Cable weight [kg/km]	Fire load [MJ/km]	Max. tensile strength during installation [kN]
2x2x0,8+0,8 mm	4		0.8	7.5	68	72	
4x2x0,8+0,8 mm	8		0.8	9.3	107	104	
8x2x0,8+0,8 mm	16		0.8	11.4	174	151	

ELECTRICAL DATA

Basic construction	Conductor resistance at 20° C [Ohm/km]	Loop resistance [Ohm]	Characteristic impedance [Ohm]	Coupling attenuation [dB]	Nominal operation capacitance [nF/km]
2x2x0,8+0,8 mm	36.6	73.2			100
4x2x0,8+0,8 mm	36.6	73.2			100
8x2x0,8+0,8 mm	36.6	73.2			100