FRHF control

Control cable FRHF

450/750 V

Application

Fire-resistant control cable for fixed installations indoors and outdoors. Not to be laid in soil nor directly in cast concrete. For locations where safety requires the operation of alarm, control, signalling and energy circuits also during a fire. The conductor insulation must be protected against UV-radiation. Installations must be in accordance with national regulations and rules of installations. No requirement for CPR-classification.

Design

Standards	SFS 7516
Product Environmental Profile (PEP/ EPD)	PEP NXNS-00707-V01.01-EN
Conductor	Circular solid copper, EN/IEC 60228 class 1
Insulation	Cross-linked polyethylene XLPE and mica-tape
Core Identification	Black, with white numbers
Inner covering	Extruded filling compound
Oversheath	UV-protected polyolefin compound , Orange

Temperature limits

Max. conductor temperature °C	70
Max. cond. temp. short circuit max. 5 s °C	160
Min. cable temperature during operation °C	-40
Min. cable temperature during handling °C	-15
Min. cable temperature during transport °C	-40

Additional information

IEC 60331-21 Fire-resistant, 180 min.
IEC 60331-1, -2 EN 50200, EN 50362 Fire-resistant with shock, 90 min.
EN/IEC 60332-3 Flame retardant in a bunch
EN/IEC 61034 Low smoke density
EN/IEC 60754 Halogen-free, non-corrosive

Technical information	7x1,5	12x1,5	19x1,5	27x1,5	7x2,5	12x2,5	19x2,5	27x2,5
Product code	**1145581**	**1145585**	**1145587**	**1145591**	**1145596**	**1145598**	**1145599**	**1145607**
Nominal cable diameter mm	14	18	22	26	15	20	23	28
Nominal cable weight kg/km	281	461	673	928	389	601	880	1235
Nominal weight of copper kg/km	94	162	257	365	151	262	412	589
Nominal diameter of conductor mm	1,3	1,3	1,3	1,3	1,7	1,7	1,7	1,7
Nominal Insulation thicness mm	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7
Nominal thickness of oversheath mm	1,5	1,5	1,5	1,6	1,5	1,5	1,6	1,7
Fire load								
Fire load MJ/m	3,283	5,244	7,580	10,395	4,363	6,655	9,871	13,559
Fire load kWh/m	0,912	1,457	2,106	2,888	1,212	1,849	2,742	3,766
Maximum forces during installation when pulling by								
Max. pulling force by pulling-eye kN	0,5	0,9	1,4	2,0	0,8	1,5	2,3	3,3
Max. pulling force by pulling-stocking kN	0,2	0,3	0,5	0,8	0,3	0,6	0,9	1,3
Minimum bending radii								
Minimum bending radius, handling mm	164	216	262	308	184	234	278	335
Minimum bending radius, final bending mm	115	151	183	216	129	164	194	234
Minimum bending radii								
During handling and installation, cable cm	16	22	26	31	18	23	28	33
In final installation, cable cm	11	15	18	22	13	16	19	23
DC resistance								
Max. DC resistance of conductor at 20 °C Ω/km	12,1	12,1	12,1	12,1	7,41	7,41	7,41	7,41
Environmental information								
(A1-A3) GWP emission kgCO2e/km	888	1499	2264	3186	1238	2003	3013	4298
GWP emissions calculation standard	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019	EN15804:2012 + A2:2019

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STANDARD PACKAGES	7x1,5	12x1,5	19x1,5	27x1,5	7x2,5	12x2,5	19x2,5	27x2,5
Product code	1145581	1145585	1145587	1145591	1145596	1145598	1145599	1145607
GTIN code	6410004128824	6410004128862	6410004128879	6410004128855	6410004128923	6410004128930	6410004128947	6410004128954
Package	500 K8	1000 K12	1000 K16	500 K14	500 K9	500 K12	500 K14	500 K14
Product code	1145581	1145585	1145587					
GTIN code	6410004128800	6410004128831	6410004128848					
Package	1000 K10	500 K10	500 K12					