

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. The cable is not CPR-classified.



FlameRex

Design

Standards	HD 627 7 D-1
Certificates	SGS Fimko FI 30248
Conductor	Circular solid copper, EN/IEC 60228 class 1
Insulation	Halogen-free XLPE, mica tape
Separation sheath	Halogen-free filling compound
Oversheath	UV-protected halogen-free polyolefin compound
Colour of the oversheath	Orange

Temperature limits

Max. conductor temperature °C	90
Max. cond. temp. short circuit max. 5 s °C	250
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 60332-3-22 Flame retardant in a bunch, Category A
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 diameter of conductor mm	1,3	1,3	1,3	1,3	1,7	1,7	1,7	1,7
Nominal diameter of complete cable mm	14	18	22	26	16	20	25	29
Nominal weight of cable kg/km	280	459	670	924	405	624	932	1288
Nominal cross-sectional area of conductor mm ²	1,5	1,5	1,5	1,5	2,5	2,5	2,5	2,5
Nominal thickness of insulation mm	0,7	0,7	0,7	0,7	0,8	0,8	0,8	0,8
Nominal thickness of oversheath mm	1,5	1,5	1,5	1,6	1,5	1,5	1,6	1,7
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
Minimum bending radii								
Minimum bending radius, handling mm	168	216	264	312	192	240	300	348
Minimum bending radius, final bending mm	118	151	185	218	134	168	210	244
Minimum bending radii								
During handling and installation, cable cm	17	22	26	31	19	24	30	35
In final installation, cable cm	12	15	18	22	13	17	21	24
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