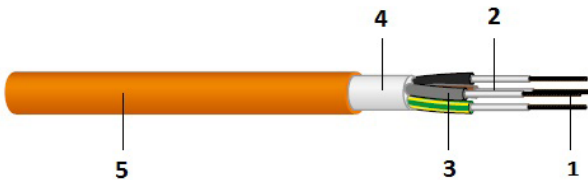


FE180 flex

Control cable flex, 300/500V, Keram

halogen-free, with improved fire characteristics,
with reference to SEV TP 20B/3C and CENELEC HD 604 S1 part 5.H



- 1 Conductor: stranded
- 2 Fire barrier: high-performance Keram compound
- 3 Insulation: cross-linked polymer, zero halogen
- 4 Filler: flame retardant, zero halogen
- 5 Sheath: FRNC / LSZH



Description

Safety cables are installed in all areas that require special protection of people and equipment against fire and fire damages and where strict security requirements must be fulfilled.

Suitable for indoor applications. For outdoor applications, protection must be provided against exposure to direct sunlight. The cable should only be laid directly in earth or water if a protective conduit is used.

Permitted operating temperature at conductor of +90°C.

Construction

Conductor	Bare copper, stranded, IEC 60228 class 5, EN 60228
Core colours	CENELEC HD 308 S2
Filler	HD 604 S1 part 5 H
Insulation	Special compound, HD 604 S1 part 5 H
Outer sheath material	Compound, HD 604 S1 part 5 H

General Properties

Installation temperature	-5 °C - +50 °C
Operating temperature	-45 °C - +90 °C

Electrical properties

Nominal voltage	300/500V
Test voltage 50Hz	2,000 V

Mechanical properties

Minimum bending during installation (multi core)	6 x D
Minimum bending radius permanent (multi core)	4 x D

Standards

Circuit integrity (FE180/PH120)	IEC 60331-11/-21 (180 minutes),VDE 0472-814 (FE180),BS 6387 C/W/Z,IEC 60331-1 (PH120),IEC 60331-2 (120 minutes),EN 50200 (PH120),VDE 0482-200 (PH120),VDE 0482-362,AREI-RGIE Art.104-FR1
Zero halogen no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Art.104-SA, SEV TPV11
Flame Propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, AREI-RGIE Art.104-F1, SEV TP 20B/3C 3.4.1.1
Flame Spread	IEC 60332-3-24 Cat. C, EN 60332-3-24 Cat. C, VDE 0482-332-3-24 Cat. C, AREI-RGIE Art.104-F2, SEV TP 20B/3C 3.4.1.3
Smoke Density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Art.104-SD, SEV TP 20B/3C 3.4.3

Note

Additional dimensions available on request.

Versions

Material number	Product	Diameter mm ²	Outer sheath diameter [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Construction
188335	FE180 flex 3 x 1.5	1.5	8.5	43	123	0.27	LNPE
187554	FE180 flex 5 x 1.5	1.5	10.3	72	182	0.40	3LNPE
187179	FE180 flex 5 x 2.5	2.5	12.1	120	271	0.55	3LNPE
192367	FE180 flex 7 x 1.5	1.5	11	101	222	0.44	6LPE
185228	FE180 flex 8 x 1.5	1.5	12.4	115	273	0.56	6LNPE
191059	FE180 flex 12 x 1.5	1.5	14	173	313	0.72	11LPE
191060	FE180 flex 16 x 1.5	1.5	16	231	410	0.89	15LPE
191061	FE180 flex 21 x 1.5	1.5	18	303	527	1.10	20LPE

Subject to technical modification

As of 2020-12-03 13:13:44