FE5-CL

Safety cable, 0.6/1kV, armoured with rodent protection, euroclass Dca

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

1 Conductor: solid/stranded
2 Insulation: cross-linked PE, zero halogen
3 Inner sheath: Polyolefin, flame retardant, zero halogen
4 Armouring: galvanised steel tape
5 Sheath: FRNC/LSZH

Description

For permanent installation in dry, damp or wet areas, on or behind plasterwork or in walls or concrete. Also suitable for outdoor applications.
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

Armouring (rodent protection)	galvanised steel tape (CL)
Conductor	Bare copper, solid or stranded, IEC 60228, EN 60228
Core colours	CENELEC HD 308 S2
Inner sheath	Flame retardant Polyolefin compound CENELEC HD 604 S1 part 5 sec. H
Insulation	Cross-linked Polyethylene CENELEC HD 604 S1 part 5 sec. H
Outer sheath material	Flame retardant Polyolefin compound CENELEC HD 604 S1 part 5 sec. H

General Properties

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

Electrical properties

Nominal voltage	0.6/1kV
Test voltage 50Hz	3,500 V

Mechanical properties

Minimum bending during installation (multi core)	12 x D
Minimum bending during installation (single core)	15 x D
Minimum bending radius permanent (multi core)	12 x D
Minimum bending radius permanent (single core)	15 x D

Standards

Reaction to fire (Euroclasses)	EN 13501-6
Zero halogen no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Art.104-SA
Flame Propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, AREI-RGIE Art.104-F1
Flame Spread	IEC 60332-3-24, EN 60332-3-24, AREI-RGIE Art.104-F2
Smoke Density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Art.104-SD

Note

Additional dimensions available on request.

Versions

Material number	Product	Reaction To Fire	Diameter mm^2	Outer sheath diameter [mm]	CU rate [kg\km]	Weight [kg\km]	Fire load [kWh\m]	Conductor	Construction	Packing unit
19628600DZ	FE5-CL 1 x 35	Dca-s2,d1,a1	35	14	378	488	0.74	stranded	L	by the metre
19621600DZ	FE5-CL-J 1 x 300	Dca-s2,d1,a1	300	33	2,976	3,354	3.61	stranded	L	by the metre
19627500DZ	FE5-CL-J 2 x 1.5	Dca-s2,d1,a1	1.5	8	29	112	0.28	solid	LN	by the metre
19586400DZ	FE5-CL-J 2 x 2.5	Dca-s2,d1,a1	2.5	10	49	153	0.37	solid	LN	by the metre
19273000DZ	FE5-CL-J 3 x 2.5	Dca-s2,d1,a1	2.5	10	72	170	0.41	solid	LNPE	by the metre
19109100DZ	FE5-CL-J 3 x 4	Dca-s2,d1,a1	4	11	115	238	0.48	solid	LNPE	by the metre
19156800DZ	FE5-CL-J 3 x 10	Dca-s2,d1,a1	10	16	288	505	0.91	solid	LNPE	by the metre
19167200DZ	FE5-CL-J 4 x 1.5	Dca-s2,d1,a1	1.5	9	58	153	0.36	solid	3LPE	by the metre
19164500DZ	FE5-CL-J 3 x 6	Dca-s2,d1,a1	6	13	173	333	0.65	solid	LNPE	by the metre
19626100DZ	FE5-CL-J 4 x 2.5	Dca-s2,d1,a1	2.5	11	96	217	0.48	solid	3LPE	by the metre
19626400DZ	FE5-CL-J 5 x 1.5	Dca-s2,d1,a1	1.5	10	72	176	0.45	solid	3LNPE	by the metre
19106400DZ	FE5-CL-J 5 x 2.5	Dca-s2,d1,a1	2.5	12	120	264	0.59	solid	3LNPE	by the metre
19273100DZ	FE5-CL-J 5 x 4	Dca-s2,d1,a1	4	14	192	364	0.73	solid	3LNPE	by the metre
19059500DZ	FE5-CL-J 5 x 6	Dca-s2,d1,a1	6	16	288	497	0.92	solid	3LNPE	by the metre
18838900DZ	FE5-CL-J 5 x 10	Dca-s2,d1,a1	10	18	480	743	1.56	solid	3LNPE	by the metre
19040100DZ	FE5-CL-J 5 x 16	Dca-s2,d1,a1	16	24	768	1,120	2.03	stranded	3LNPE	by the metre
19106300DZ	FE5-CL-J 5 x 25	Dca-s2,d1,a1	25	28	1,200	1,710	2.76	stranded	3LNPE	by the metre
19109000DZ	FE5-CL-J 5 x 35	Dca-s2,d1,a1	35	31.8	1,680	2,277	3.44	stranded	3LNPE	by the metre
19103600DZ	FE5-CL-J 5 x 50	Dca-s2,d1,a1	50	36	2,400	3,144	4.74	stranded	3LNPE	by the metre
19160000DZ	FE5-CL-J 5 x 95	Dca-s2,d1,a1	95	49	4,560	5,854	8.16	stranded	3LNPE	by the metre
18092900DZ	FE5-CL-J 7 x 6	Dca-s2,d1,a1	6	17	403	633	1.1	solid	6LPE	by the metre
18453100DZ	FE5-CL-J 7 x 10	Dca-s2,d1,a1	10	20	672	964	1.48	solid	6LPE	by the metre