

Flexible medium voltage cable

Felfoflex[®] NTMCWOU



DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Single core cables are used in short lengths, e.g. for connection of switchgear cubicles and for connection of mobile transformer substations where small bending radius is required. The outer semiconducting layer may be removed without heating.

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0.1 %: CAS 1314-41-6

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Screen:	spiral copper wires, tinned
Torsion:	+/- 25 °/m
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø
Maximum tensile strength at the conductor:	15 N/mm ²



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Felflex[®] NTMCWOU 6/10 kV

Nominal voltage U_o: 6 kV
Nominal voltage U: 10 kV
Maximum permitted operating voltage in three-phase systems: 12 kV

part no.	part name	RI [Ohm/km]	I _{bl} [A]	I _k [kA]	Ø [mm]	Cu	G [kg]
052717	01X25/16	0.795	178	3.58	23.5	442	890
051153	01X35/16	0.565	220	5	25	518	960
051150	01X50/16	0.393	275	7.2	27	662	1265
051363	01X70/16	0.277	340	10	28.5	854	1530
051450	01X95/16	0.21	409	13.6	30.5	1094	1770
051394	01X120/16	0.164	479	17.2	32.5	1334	1985
052565	01X150/25	0.132	549	21.45	35	1723	2418
052302	01X185/25	0.108	627	26.5	37	2059	2900
051333	01X240/25	0.0817	734	34.3	41	2587	3590
051490	01X300/25	0.0654	843	42.9	43	3163	4023
052183	01X500/35	0.0391	1178	71.5	51	5194	6118
052545	01X630/35	0.0292	1364	90.1	57.2	6442	7858

Felflex[®] NTMCWOU 12/20 kV

Nominal voltage U_o: 12 kV
Nominal voltage U: 20 kV
Maximum permitted operating voltage in three-phase systems: 24 kV

part no.	part name	RI [Ohm/km]	I _{bl} [A]	I _k [kA]	Ø [mm]	Cu	G [kg]
052419	01X25/16	0.795	189	3.58	26.9	442	1085
051121	01X35/16	0.565	234	5	29.2	518	1250
051353	01X50/16	0.393	292	7.2	31	662	1459
051364	01X70/16	0.277	360	10	34.2	854	1852
051120	01X95/16	0.21	434	13.6	35.5	1094	2089
051361	01X120/16	0.164	505	17.2	38	1334	2382
051399	01X150/25	0.132	582	21.5	40.5	1723	2933
051569	01X185/25	0.108	664	26.5	42	2059	3265
051487	01X240/25	0.0817	781	34.3	44.3	2587	3842
051511	01X300/25	0.0654	898	42.9	47.4	3163	4471
054569	01X400/70	0.0495	1074	57.2	53.3	4766	6337
051794	01X500/35	0.0391	1235	71.5	54.7	5194	6553
053409	01X630/35	0.0292	1428	85.8	61.4	6524	8660

Felflex[®] NTMCW0EU 18/30 kV

Nominal voltage U₀: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in 36 kV

three-phase systems:

part no.	part name	RI [Ohm/km]	I _{bl} [A]	I _k [kA]	Ø [mm]	Cu	G [kg]
054371	01X25/16	0.795	189	3.58	32.9	442	1516
051923	01X120/16	0.164	505	17.2	43	1452	3000
051402	01X150/25	0.132	582	21.5	46	1815	3389
053071	01X500/35	0.0391	1235	71.5	61.5	5194	7560

Felflex[®] NTMCW0EU 20/35 kV

Nominal voltage U₀: 20 kV

Nominal voltage U: 35 kV

Maximum permitted operating voltage in 42 kV

three-phase systems:

part no.	part name	RI [Ohm/km]	I _{bl} [A]	I _k [kA]	Ø [mm]	Cu	G [kg]
053422	01X70/16	0.277	360	10	42.5	855	2550

RI	Conductor resistance
I _{bl}	Ampacity in air (30 °C)
I _k	Short-circuit current (1 s)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000