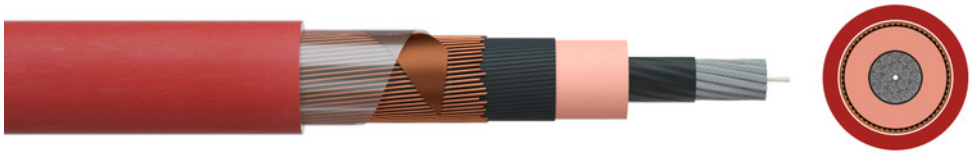
Flexible medium voltage cable (N)TMCGCWOEU



Application: Single core cables are used in short lengths, e.g. for the connection of switchgear cubicles and for the connection of mobile transformer substations. When laying and during operation, care should be taken to protect them from excessive mechanical stress. The outer semi-conducting layer must be heated before removal.

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
Arrangement of protective conductors:	copper spiral shield
Sheathing material:	rubber (CR) 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 - +60 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	10 x Ø

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.

(N)TMCGCWOEU 6/10 kV

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 17 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
051052	1X95/16 KON	0.21	301	28.8	1425	1066	1510
051286	1X120/16 KON	0.164	352	30.9	1800	1452	1880
051346	1X150/25 KON	0.132	404	33.3	2250	1740	2320
051302	1X185/25 KON	0.108	461	35.2	2775	2078	2670
051268	1X240/25 KON	0.0817	528	39	3600	2640	3170
051491	1X300/25 KON	0.0654	608	42.2	4500	3120	3760
053382	1X630/35 KON	0.0292		57	9450	6384	7980
051169	1X240	0.0817	528	39.4	3600	2304	3100
051103	1X300	0.0654	608	31.3	4500	2880	3750

(N)TMCGCWOEU 8.7/15 kV

Nominal voltage Uo: 8.7 kV

Nominal voltage U: 15 kV

Maximum permitted operating voltage in three-phase systems: 18 kV

Test voltage: 24 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
053134	1x400/35 KON	0.0495	970	46.9	6000	4176	4800

(N)TMCGCWOEU 12/20 kV

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 29 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
051747	1X25/16 KON	0.795	139	24.3	375	394	870
051277	1X50/16 KON	0.393	216	27.3	750	712	1200

(N)TMCGCWOEU 18/30 kV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 43 kV

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
052574	1X35/16 KON	0.565	172	30	525	490	1240
051740	1X95/16 KON	0.21	319	36.1	1425	1066	2040
051741	1X120/16 KON	0.164	371	37.9	1800	1306	2297

part no.	part name	Rl [Ohm/km]	Ibl [A]	Ø [mm]	Fzv [N]	Cu	G [kg]
051674	1X150/25 KON	0.132	428	41.3	2250	1680	2780
052962	1X185/25 KON	0.108	488	43	2775	2016	3230
051635	1X240/25	0.0817	574	46.2	600	2640	4395
051542	1X300/25 KON	0.0654	660	48.5	4500	3120	4340
053072	1X500/35 KON	0.0391		57.1	7500	5136	6730

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000