

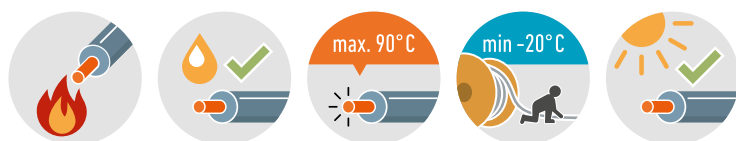
Flexible medium voltage cable (N)TMCGCWOEU acc. to VDE 0250-813 (with ref. to)



Conductor material:	tinned copper
Conductor class:	class 5 = fine stranded
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Arrangement of protective conductors:	copper spiral shield on each core
Sheathing material:	rubber (CR) 5GM3
Colour 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
Maximum permitted conductor temperature:	90 °C
Permitted outer cable temperature, fixed:	-40 - +80 °C
Permitted outer cable temperature, in motion/ during installation:	-25 - +60 °C
Torsion:	+/- 25 °/m
Bending radius, fixed installation:	6 x DA
Bending radius, moving application:	10 x DA

	<i>(N)TMCGCWÖU 6/10 kV</i>	<i>(N)TMCGCWOEU 12/20 kV</i>	<i>(N)TMCGCWÖU 18/30 kV</i>
Nominal voltage U₀:	6 kV	12 kV	18 kV
Nominal voltage U:	10 kV	20 kV	30 kV
Maximum permitted operating voltage in three-phase systems:			
Test voltage:	17 kV	29 kV	43 kV

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 not be heated before removal.



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.

Table: Technical characteristics (N)TMCGCWÖU 6/10 kV

p/n	part name	R _l [Ω/km]	I _{bl} [A]	I _k [kA]	D _A [mm]	F _{zv} [N]	Cu [kg/km]	G [kg/km]
051052	(N)TMCGCWÖEU 01X95/16 KON 6/10 kV RT	0,21	409	13,59	28,9	1425	1066	1590
051286	(N)TMCGCWÖEU 01X120/16 KON 6/10 kV RT	0,164	479	17,16	30,9	1800	1452	1880
051346	(N)TMCGCWÖEU 01X150/25 KON 6/10 kV RT	0,132	549	21,45	33,3	2250	1740	2320
051302	(N)TMCGCWÖEU 01X185/25 KON 6/10 kV RT	0,108	627	26,46	35,2	2775	2078	2670
051268	(N)TMCGCWÖEU 01X240/25 KON 6/10 kV RT	0,0817	744	34,32	38,3	3600	2640	3310
051491	(N)TMCGCWÖEU 01X300/25 KON 6/10 kV RT	0,065	825	42,9	41,3	4500	3120	3690
051169	(N)TMCGEWÖEU 01X240 6/10 kV RT	0,0817	744	34,32	39,4	3600	2304	3100
051103	(N)TMCGEWÖEU 01X300 6/10 kV RT	0,065	825	42,9	31,3	4500	2880	3750

Table: Technical characteristics (N)TMCGCWÖEU 12/20 kV

p/n	part name	R _l [Ω/km]	I _{bl} [A]	I _k [kA]	D _A [mm]	F _{zv} [N]	Cu [kg/km]	G [kg/km]
051747	(N)TMCGCWÖEU 01X25/16 KON 12/20 kV RT	0,795	189	3,58	24,3	375	394	870
051119	(N)TMCGCWÖEU 01X35/16 KON 12/20 kV RT	0,565	234	5,01	25	525	576	970
051277	(N)TMCGCWÖEU 01X50/16 KON 12/20 kV RT	0,393	294	7,15	27,3	750	712	1200
051446	(N)TMCGCWÖEU 01X70/16 KON 12/20 kV RT	0,277	360	10,01	29,1	1050	912	1440
051135	(N)TMCGCWÖEU 01X95/16 KON 12/20 kV RT	0,21	434	13,59	30,8	1425	1145	1690
051300	(N)TMCGCWÖEU 01X150/25 KON 12/20 kV RT	0,132	582	21,45	36	2250	1740	2510
051266	(N)TMCGCWÖEU 01X185/25 KON 12/20 kV RT	0,108	664	26,46	37	2775	2083	2810
051292	(N)TMCGCWÖEU 01X240/25 KON 12/20 kV RT	0,0817	782	34,32	41	3600	2640	3540
051475	(N)TMCGCWÖEU 01X300/25 KON 12/20 kV RT	0,065	840	42,9	47	4500	3309	4417

Table: Technical characteristics (N)TMCGCWÖU 18/30 kV

p/n	part name	R _l [Ω/km]	I _{bl} [A]	I _k [kA]	D _A [mm]	F _{zv} [N]	Cu [kg/km]	G [kg/km]
051740	(N)TMCGCWÖEU 01X95/16 KON 18/30 kV RT	0,21	434	13,59	36,1	1425	1066	2040
051741	(N)TMCGCWÖEU 01X120/16 KON 18/30 kV RT	0,164	505	17,16	37,9	1800	1306	2297

R _l	Conductor resistance
I _{bl}	Ampacity in air (30 °C)
I _k	Short-circuit current (1 s)
D _A	Outer diameter approx.
F _{zv}	Tensile strength (during installation)
Cu	Copper weight (GER)
G	weight