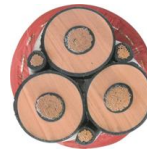


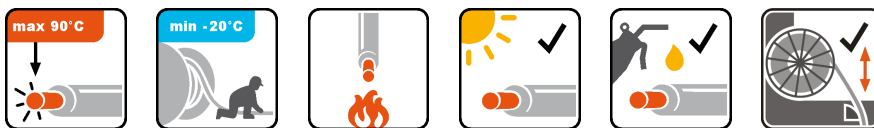
Trailing cable (N)TSCGEWÖU MT PLUS acc. to VDE 0250-813



conductor material:	tinned copper
conductor construction:	fine stranded, class 5
insulation:	rubber 3GI3
control of electrical field:	inner and outer semiconducting rubber layer
central filling element:	semiconductive compound on polyester support
arrangement of protective conductors:	split into three elements in outer interstices
covering of strand:	semiconductive tape
inner sheath:	rubber GM1b
torsion protecting element:	polyester braid
sheathing material:	rubber (CR) 5GM3
colour of outer sheath:	red
flame retardant:	VDE 0482-332-1-2/IEC 60332-1
oil resistant:	EN 60811-2-1
ozone resistant:	yes
maximum temperature at conductor:	90 °C
max. operating temperature, fixed:	-40 - +80 °C
temperature, moved/during installation:	-20 - +80 °C
bending radius, fixed installation:	6 x DA
bending radius, moved application:	15 x DA
working speed:	120 m/min.

	<i>6/10 kV</i>	<i>12/20 kV</i>
nominal voltage U₀:	6 kV	12 kV
nominal voltage U:	10 kV	20 kV
test voltage:	17 kV	29 kV
maximum permitted operating voltage in 3-phase systems:	12 kV	24 kV

Application: Flexible medium voltage reeling cable for high and extreme mechanical stresses, e.g. torsional stress, deflection into different planes and high reeling speed. Also usable for underground and opencast mining.



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 data 6/10 kV

Art.-Nr.	part-name	RI [Ω/km]	I _{bl} [A]	I _k [kA]	DA [mm]	F _z [N]	CU	G [kg/km]
051049	(N)TSCGEWOEU MT PLUS 03X25 + 03X25/3 6/10 kV RT	0,780	131	3,58	41,7	1500	960	2390
051095	(N)TSCGEWOEU MT PLUS 03X35 + 03X25/3 6/10 kV RT	0,554	162	5,01	46,2	2100	1248	2970
051106	(N)TSCGEWOEU MT PLUS 03X50 + 03X25/3 6/10 kV RT	0,386	202	7,15	49,5	2250	1680	3640
051107	(N)TSCGEWOEU MT PLUS 03X70 + 03X35/3 6/10 kV RT	0,272	250	10	53,4	4200	2352	4640
051108	(N)TSCGEWOEU MT PLUS 03X95 + 03X50/3 6/10 kV RT	0,206	301	13,6	59,7	4275	3216	5800
051109	(N)TSCGEWOEU MT PLUS 03X120 + 03X70/3 6/10 kV RT	0,161	352	17,16	63,6	7200	4128	7040
051110	(N)TSCGEWOEU MT PLUS 03X150 + 03X70/3 6/10 kV RT	0,129	404	21,45	70,5	9000	4992	8570
051038	(N)TSCGEWOEU MT PLUS 03X185 + 03X95/3 6/10 kV RT	0,106	462	26,46	74,2	11100	6240	10080

The current rating are calculated for 30 °C ambient temperature and standard utility load flow.

table: technical data 12/20 kV

Art.-Nr.	part-name	RI [Ω/km]	I _{bl} [A]	I _k [kA]	DA [mm]	F _z [N]	CU	G [kg/km]
051116	(N)TSCGEWOEU MT PLUS 03X25 + 3X25/3 12/20 kV RT	0,780	139	3,58	50,2	1500	960	3200
051088	(N)TSCGEWOEU MT PLUS 03X35 + 3X25/3 12/20 kV RT	0,554	172	5,01	51,8	2100	1248	3690
051045	(N)TSCGEWOEU MT PLUS 03X50 + 3X25/3 12/20 kV RT	0,386	215	7,15	56,8	2250	1680	4400
051111	(N)TSCGEWOEU MT PLUS 03X70 + 3X35/3 12/20 kV RT	0,272	265	10	61	4200	2352	5540
051089	(N)TSCGEWOEU MT PLUS 03X95 + 3X50/3 12/20 kV RT	0,206	319	13,6	65	4275	3216	6660

The current rating are calculated for 30 °C ambient temperature and standard utility load flow.