

Medium voltage reeling cable (N)TSCGEWOEU MT PLUS

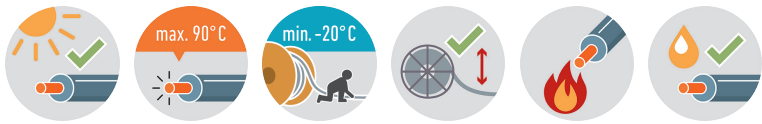


Application: Flexible medium voltage reeling cable for high and extreme mechanical stress, e.g. torsional stress, deflection and high reeling speed. Other applications have to be agreed with Faber otherwise warranty may become void.

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 85535-85-9

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
Central filler:	semiconductive compound on polyester support
Core wrapping:	semiconductive tape
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber GM1b
Torsion protection:	polyester braid
Torsion:	+/- 25 °/m
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
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
°C:	
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-20 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	15 x Ø
Maximum tensile strength at the conductor:	20 N/mm ²
Operating speed:	120 m/min.



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)TSCGEWÖEU MT PLUS 3.6/6 kV

Nominal voltage U_o: 3.6 kV
Nominal voltage U: 6 kV
Maximum permitted operating voltage in three-phase systems: 7.2 kV
Test voltage: 11 kV

part no.	part name	RI [Ohm/km]	I _{bl} [A]	I _k [kA]	Ø [mm]	F _{zv} [N]	Cu	G [kg]
051641	03X25 + 3X25/3	0.795	131	3.58	40.3	1500	960	2380
051453	03X35 + 3X25/3	0.565	162	5.01	44.6	2100	1248	2920
051737	03X50 + 3X25/3	0.393	202	7.15	47.7	3000	1680	3520
051738	03X95 + 3X50/3	0.21	301	13.6	57.6	5700	3216	5580
051739	03X185 + 3X95/3	0.108	461	26.46	70.2	11100	6240	9730

(N)TSCGEWÖEU MT PLUS 6/10 kV

Nominal voltage U_o: 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	RI [Ohm/km]	I _{bl} [A]	I _k [kA]	Ø [mm]	F _{zv} [N]	Cu	G [kg]
051049	03X25 + 3X25/3	0.795	131	3.58	40.3	1500	960	2380
051095	03X35 + 3X25/3	0.566	162	5.01	44.6	2100	1248	2920
051106	03X50 + 3X25/3	0.393	202	7.15	47.7	3000	1680	3520
051107	03X70 + 3X35/3	0.277	250	10	51.6	4200	2352	4560
051108	03X95 + 3X50/3	0.21	301	13.6	57.6	5700	3216	5580
051109	03X120 + 3X70/3	0.164	352	17.16	61.4	7200	4128	6830
051110	03X150 + 3X70/3	0.132	404	21.45	68.3	9000	4992	8320
051038	03X185 + 3X95/3	0.108	462	26.46	70.2	11100	6240	9500

(N)TSCGEWÖEU MT PLUS 12/20 kV

Nominal voltage U_o: 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	RI [Ohm/km]	I _{bl} [A]	I _k [kA]	Ø [mm]	F _{zv} [N]	Cu	G [kg]
051116	03X25 + 3X25/3	0.795	139	3.58	48.1	1500	960	3080
051088	03X35 + 3X25/3	0.566	172	5.01	50.6	2100	1248	3460
051045	03X50 + 3X25/3	0.393	215	7.15	55.5	3000	1680	4310
051111	03X70 + 3X35/3	0.277	265	10	59.3	4200	2352	5310
051089	03X95 + 3X50/3	0.21	319	13.6	63.2	5700	3216	6180

part no.	part name	RI [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Fzv [N]	Cu	G [kg]
051258	03X120 + 3X70/3	0.164	371	17.16	68.7	7200	4128	7730

RI	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000