

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.

Construction and technical data:

Standard:	VDE 0250-813
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) 5GM3
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
Maximum temperature at conductor, °C:	90 °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.



(N)TSCGEWÖEU MT PLUS 3.6/6 kV

Nominal voltage U₀: 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 [kg/km]	G [kg/km]
051641	03X25 + 3X25/3	0.78	131	3.58	40.3	1500	960	2380
051453	03X35 + 3X25/3	0.554	162	5.01	44.6	2100	1248	2920
051737	03X50 + 3X25/3	0.386	202	7.15	47.7	3000	1680	3520
051665	03X70 + 3X35/3	0.272	250	10	51.6	4200	2352	4430
051738	03X95 + 3X50/3	0.206	301	13.6	57.6	5700	3216	5580
051739	03X185 + 3X95/3	0.106	461	26.46	70.2	11100	6240	9400
051697	03X120 + 3X70/3	0.161	352	17.16	61.4	7200	4128	6770

(N)TSCGEWÖEU MT PLUS 8.7/15 kV

Nominal voltage U₀: 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	RI [Ohm/km]	I _{bl} [A]	I _k [kA]	Ø [mm]	F _{zv} [N]	Cu [kg/km]	G [kg/km]
051276	03X50 + 3X25/3	0.386	202	7.15	51.2	3000	1680	3830

(N)TSCGEWÖU MT PLUS 6/10 kV

Nominal voltage U₀: 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 [kg/km]	G [kg/km]
051049	03X25 + 3X25/3	0.78	131	3.58	40.3	1500	960	2380
051095	03X35 + 3X25/3	0.554	162	5.01	44.6	2100	1248	2920
051133	03X35 + 3X35/3	0.554	162	5.01	44.6	2100	1344	3100
051106	03X50 + 3X25/3	0.386	202	7.15	47.7	3000	1680	3520
051456	03X50 + 3X50/3	0.386	202	7.15	47.7	3000	1920	3710
051107	03X70 + 3X35/3	0.272	250	10	51.6	4200	2352	4560
051108	03X95 + 3X50/3	0.206	301	13.6	57.6	5700	3216	5580
051109	03X120 + 3X70/3	0.161	352	17.16	61.4	7200	4128	6830
051110	03X150 + 3X70/3	0.129	404	21.45	68.3	9000	4992	8320
051038	03X185 + 3X95/3	0.106	462	26.46	70.2	11100	6240	9500

(N)TSCGEWOEU 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 [kg/km]	G [kg/km]
051116	03X25 + 3X25/3	0.78	139	3.58	48.1	1500	960	3080
051088	03X35 + 3X25/3	0.554	172	5.01	50.6	2100	1248	3460
051045	03X50 + 3X25/3	0.386	215	7.15	55.5	3000	1680	4310
051111	03X70 + 3X35/3	0.272	265	10	59.3	4200	2352	5310
051089	03X95 + 3X50/3	0.206	319	13.6	63.1	5700	3216	6180
051258	03X120 + 3X70/3	0.161	371	17.16	68.7	7200	4128	7730
051314	03X70 + 3X16	0.272	265	10	59.3	4200	2477	5600

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