

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



Conductor material:	tinned copper
Conductor class:	class 5 = fine stranded
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Central filler:	semiconductive compound on polyester support
Arrangement of protective conductors:	split in the outer interstices
Core wrapping:	semiconductive tape
Material inner sheath:	rubber GM1b
Torsion protection:	polyester braid
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:	-20 - +80 °C
Torsion:	+/- 25 °/m
Bending radius, fixed installation:	6 x DA
Bending radius, moving application:	15 x DA
Operating speed:	120 m/min.

	<i>(N)TSCGEWÖEU MT PLUS</i>	<i>(N)TSCGEWÖU MT PLUS</i>	<i>(N)TSCGEWÖEU MT PLUS</i>
	3.6/6 kV	6/10 kV	12/20 kV
Nominal voltage U₀:	3,6 kV	6 kV	12 kV
Nominal voltage U:	6 kV	10 kV	20 kV
Maximum permitted operating voltage in three-phase systems:	7,2 kV	12 kV	24 kV
Test voltage:	11 kV	17 kV	29 kV

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.



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)TSCGEWÖEU MT PLUS 3.6/6 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]
051737	03X50 + 03X25/3	0,386	202	7,15	47,7	3000	1680	3520
051738	03X95 + 03X50/3	0,206	301	13,6	57,6	5700	3216	5580
051739	03X185 + 03X95/3	0,106	461	26,46	70,2	11100	6240	9400

Table: Technical characteristics (N)TSCGEWÖU MT PLUS 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]
051049	03X25 + 03X25/3	0,78	131	3,58	40,3	1500	960	2380
051095	03X35 + 03X25/3	0,554	162	5,01	44,6	2100	1248	2920
051106	03X50 + 03X25/3	0,386	202	7,15	47,7	3000	1680	3520
051107	03X70 + 03X35/3	0,272	250	10	51,6	4200	2352	4430
051108	03X95 + 03X50/3	0,206	301	13,6	57,6	5700	3216	5640
051109	03X120 + 03X70/3	0,161	352	17,16	61,4	7200	4128	6830
051110	03X150 + 03X70/3	0,129	404	21,45	68,3	9000	4992	8320
051038	03X185 + 03X95/3	0,106	462	26,46	70,2	11100	6240	9500

Table: Technical characteristics (N)TSCGEWÖEU MT PLUS 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]
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	0,164	371	14,64	68,7	7200	4128	7730

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