

Flexible medium voltage cable

R-(N)TSCGEWOEU



DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Flexible medium voltage reeling cable for high extreme mechanical stress as tension and torsion. Example of this is excavators, dumpers, mobile crushers in open-cast mines. Other applications have to be agreed with Faber otherwise warranty may become void.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	class „FS“ = exceptionally fine stranded
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Core wrapping:	semiconductive tape
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	EPR
Torsion protection:	aramid braid
Torsion:	+/- 100 °/m
Sheathing material:	basic CR
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	yes
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +60 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Operating speed:	60 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.

R-(N)TSCGEWOEU 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
Nominal voltage (DC):	5,4 kV
Test voltage:	11 kV

part no.	part name	RI [Ohm/km]	I _{bl} [A]	L _b [mH/km]	Ø [mm]	F _{zp} [N]	Cu	G [kg]
053808	03X25 + 03X25/3	0.78	131	0.35	38.5	1500	1008	2287
051439	03X50 + 3X25/3	0.386	202	0.3	45.8	3000	1764	3427
053809	03X50 + 2X25/2 + 1X10ST	0.386	202	0.3	45.8	3000	1865	3719
051799	03X240 + 3X120/3	0.08	540	0.24	74.6	14100	8467	12202
051441	03X70 + 3X35/3	0.272	250	0.27	49.4	4200	2470	4340
053805	03X35 + 2X25/2 + 1X10ST	0.554	162	0.32	45.1	2100	1411	3297
053806	03X70 + 2X35/2 + 1X10ST	0.272	250	0.27	49.6	4200	2570	4529

R-(N)TSCGEWOEU 6/10 kV

Nominal voltage U_o:	6 kV
Nominal voltage U:	10 kV
Maximum permitted operating voltage in three-phase systems:	12 kV
Nominal voltage (DC):	9 kV
Test voltage:	17 kV

part no.	part name	RI [Ohm/km]	I _{bl} [A]	L _b [mH/km]	Ø [mm]	F _{zp} [N]	Cu	G [kg]
051409	03X35 + 3X25/3	0.554	162	0.31	52	2100	1310	3920
051410	03X150 + 3X70/3	0.129	404	0.25	65.9	9000	4992	8316
052177	03X185 + 3X95/3	0.106	462	0.25	69.7	11100	6552	10023
054782	03X185 + 2X95/2 + 1X10ST	0.106	462	0.25	69.7	11100	6653	10040

R-(N)TSCGEWOEU 12/20 kV

Nominal voltage U_o:	12 kV
Nominal voltage U:	20 kV
Maximum permitted operating voltage in three-phase systems:	24 kV
Nominal voltage (DC):	18 kV
Test voltage:	29 kV

part no.	part name	RI [Ohm/km]	I _{bl} [A]	L _b [mH/km]	Ø [mm]	F _{zp} [N]	Cu	G [kg]
052017	03X25 + 3X25/3	0.78	139	0.36	47.1	1500	1008	3101

RI	Conductor resistance
I _{bl}	Ampacity in air (30 °C)
L _b	Specific inductivity
Ø	outer diameter approx.
F _{zp}	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000