

Medium voltage cable

URSUS[®] MIN PLUS (N)TSCGEWOEU



Application: Flexible cable for energy supply of heavy mobile equipment such as drag lines, shovels, dredges, drills, under extreme mechanical stresses and abrasion during trailing operation in opencast mine. 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:	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
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
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	15 x Ø



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.

URSUS[®] MIN PLUS (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

Test voltage: 11 kV

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
051701	3X16 + 3X10 RD	1.24	38.1	749	1880
051278	3X25 + 3X10 YE	0.795	42.3	1008	2380
053044	3X25 + 3X25/3 GE	0.795	42.3	960	2490
051279	3X35 + 3X10 YE	0.565	44.6	1296	2920
052851	3X50 + 3X25/3 RD	0.393	47.7	1680	3600
051280	3X70 + 3X16 YE	0.277	51.6	2477	4430
051281	3X120 + 3X25 YE	0.164	61.4	4176	6770

URSUS[®] MIN PLUS (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

Test voltage: 17 kV

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
051694	3X16 + 3X10 RD	1.24	38.1	749	1880
051696	3X35 + 3X25/3 RD	0.565	45.2	1248	3010
051581	3X50 + 3X25/3 YE	0.393	48.3	1680	3640
051339	3X50 + 3X50/3 YE	0.393	47.1	1920	3740
051282	3X95 + 3X50/3 YE	0.21	58.2	3216	5720
053536	3x95 + 3x50/3 RD	0.21	58.2	3216	5580
051283	3X120 + 3X70/3 YE	0.164	62.1	4128	7160
051359	3X185 + 3X95/3 YE	0.108	70.9	6240	10120

URSUS[®] MIN PLUS (N)TSCGEWUEU 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]	Ø [mm]	Cu	G [kg]
051582	3X50 + 3X25/3 YE	0.393	55.5	1680	4640
051343	3X95 + 3X50/3 YE	0.21	63.1	3216	6660
051344	3X120 + 3X70/3 YE	0.164	68.7	4128	8200
051583	3X185 + 3X95/3 YE	0.108	74.3	6240	10650

RI	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000