Medium voltage reeling cable
URSUS® MT KN PLUS

Application: Flexible medium voltage reeling cable with reduced weight and dimensions, 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.
- Min. bending radius: acc. to VDE 0298-3
- Max. current rating: acc. to VDE 0298-4

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 = fine stranded - DIN EN IEC 60228 (VDE 0295)
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Central filler:	semiconductive compound on Kevlar® element
Core wrapping:	semiconductive tape
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	GM1b / 5GM5
Torsion protection:	polyester braid
Torsion:	+/- 25 °/m
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	red
Flame-retardant:	DIN EN 60332-1-2 / VDE 0482-332-1 / IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	DIN EN 60811-404 / VDE 0473-811-404 / IEC 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Operating speed:	180 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.

max. tensile force on the cable

nominal cross-section conductor	25 mm²	35 mm²	50 mm²	95 mm²
Max. tensile strength	6250 N	7150 N	8500 N	12550 N

URSUS® MT KN PLUS 3.6/6 kV

Nominal voltage Uo: 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 max. [mm]	Cu	G [kg]
052594	3X25 + 3X25/3	0.795	40.3	960	2380
052595	3X35 + 3X25/3	0.565	44.6	1248	2920
052596	3X50 + 3X25/3	0.393	47.7	1680	3520
053790	3X95 + 3X50/3	0.21	57.6	3216	5580

URSUS® MT KN PLUS 6/10 kV

Nominal voltage Uo: 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 max. [mm]	Cu	G [kg]
052597	3X25 + 3X25/3	0.795	40.3	960	2380
052598	3X35 + 3X25/3	0.565	44.6	1248	2920
052599	3X50 + 3X25/3	0.393	47.7	1680	3520
053002	3X70 + 3X35/3	0.277	51.6	2352	4430
054490	3X95 + 3X50/3	0.21	57.6	3216	5640

URSUS® MT KN PLUS 8.7/15 kV

Nominal voltage Uo: 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]	Ø max. [mm]	Cu	G [kg]
052600	3X25 + 3X25/3	0.795	46.4	960	2860
052601	3X35 + 3X25/3	0.565	47.9	1248	3210
052602	3X50 + 3X25/3	0.393	51.2	1680	3830

URSUS® MT KN PLUS 12/20 kV

Nominal voltage Uo: 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	Rl [Ohm/km]	Ø max. [mm]	Cu	G [kg]
052603	3X25 + 3X25/3	0.795	48.1	960	3080
052590	3X35 + 3X25/3	0.565	50.6	1248	3460
052604	3X50 + 3X25/3	0.393	55.5	1680	4310
053383	3X240 + 3X120/3	0.0817	86.4	8064	12960

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

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