Medium voltage reeling cable

DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: Flexible medium voltage reeling cable for tunnel boring machines (TBM) in underground mining and tunnel construction.

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	copper, stranded, tinned
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Pilot conductor:	split in the outer interstices
Arrangement of protective conductors:	copper wires on each core
Material inner sheath:	rubber GM1b
Monitoring core:	copper wire spinning on first inner sheath
Torsion:	+/- 25 °/m
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-20 - +60 °C
Bending radius, fixed installation:	6 x Ø
Bending radius, moving application:	20 x Ø
Maximum tensile strength at the conductor:	15 N/mm²
Operating speed:	30 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.

PTM (N)TSCGECEWOEU MT BM 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	Dl [mm]	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Lb [mH/km]	Ø [mm]	Fzp [N]	Cu	G [kg]
052815	3X35 + 3X25/3E + 3X2,5 ST + 6 UEL KON	7.6	0.565	172	5.01	0.32	48.7	1575	1428	3649
052255	3X50 + 3X25/3E + 3X2.5 ST + 6 UEL KON	9.1	0.393	216	7.15	0.3	51.9	2250	1864	4189

PTM (N)TSCGECEWOEU MT BM 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	Dl [mm]	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Lb [mH/km]	Ø [mm]	Fzp [N]	Cu	G [kg]
051508	3X35 + 3X25/3E + 3X2.5 ST + 6 UEL KON	7.6	0.565	172	5.01	0.35	55.1	1575	1526	3912
053595	3X50 + 03X25/3E + 3X2.5ST + 6 UEL KON	9.1	0.393	215	7.15	0.33	60.7	2250	1861	5246

Dl	diameter conductor
Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Ø	outer diameter approx.
Fzp	Tensile strength (permanent)
Cu	Copper weight (GER)
G	net weight per 1000