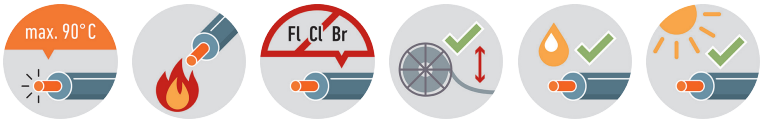
Flexible medium voltage cable
Faber® TBM H (N)TSCGECWHXOEU

Application: Flexible cable suitable for reeling drum of tunnel boring machines (TBM) and generally for tunnel application. Other applications have to be agreed with Faber Kabel, otherwise warranty may get lost.

- Min. beding radius: acc. to VDE 0298-3
- Max. current rating: acc. to VDE 0298-4, ≥ 240 mm² IEC 60364-5-52

Construction and technical data:

Standard:	DIN VDE 0250-1/605/813 (with ref. to)
Conductor material:	tinned copper
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Pilot conductor:	split in the outer interstices
Arrangement of protective conductors:	mixed braid of tinned copper wires and textile fibers over each core
Material inner sheath:	rubber GM1b
Monitoring core:	Copper wire over the inner sheath
Torsion:	+/- 25 °/m
Sheathing material:	special EVA based halogen free rubber compound
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Halogen-free:	DIN EN 50267/IEC 60754
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	200 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-20 - +60 °C
Min. distance with S-type diretional changes:	20 x Ø
Bending radius, moving application:	12 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.

Faber® TBM H (N)TSCGECWHXOEU 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	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Cu	G [kg]
054669	3x50+3x25/3E+3x2.5ST+6 UEL KON RD	0.393	202	6.5	55	2073	4391
054693	3x240+3x120/3E+3x2.5ST+6 UEL KON RD	0.0817	538	30.7	81.6	9538	13699

Faber® TBM H (N)TSCGECWHXOEU 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	Rl [Ohm/km]	Ibl [A]	Ik [kA]	Ø [mm]	Cu	G [kg]
054695	3x240+3x120/3E+3x2.5ST+6 UEL KON RD	0.0817	538	30.7	81.6	9538	13699

Faber® TBM H (N)TSCGECWHXOEU 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]	Ibl [A]	Ik [kA]	Ø [mm]	Cu	G [kg]
054670	3x35+3x25/3E+3x2,5ST+6 UEL KON RD	0.565	172	4.5	61	1638	4691
054818	3x120+3x70/3E+3x2.5ST+6 UEL KON RD	0.164	346	15.4	77	4290	9280

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ik	Short-circuit current (1 s)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000

