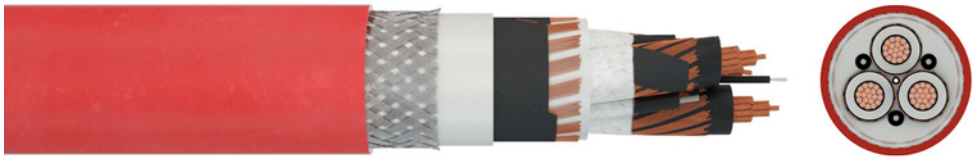
Flexible medium voltage cable
Faber® (N)3GHSSHCH



Application: As power supply cable for shiftable MV equipment in mining and tunnel applications.

Bending radius: acc. to DIN VDE 0298-3

Construction and technical data:

Standard:	VDE 0250-605 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	rubber 3GI3
Electrical field control:	inner and outer semiconducting rubber layer
Pilot conductor:	tinned copper conductors, rubber 3GI3, number marking, splitted into three parts in the outer interstices
Arrangement of protective conductors:	copper wire spinning over each phase
Material inner sheath:	halogen-free
Monitoring core:	copper wire spinning on first inner sheath
2nd inner sheath:	halogen-free
Armour:	steel wire braid, galvanized, min. corverage 75%
Torsion:	+/- 25 °/m
Sheathing material:	FRNC-compound
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	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:	+5 - +80 °C
Min. distance with S-type diretional changes:	20 x Ø
Bending radius, moving application:	10 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® (N)3GHSSHCH 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]	Ø [mm]	Fzv [N]	Cu	G [kg]
054115	3x35+3x16/3E + 3x2.5 + UEL KON	0.554	162	60.2	1575	1464	4650
054116	3x35+3x25/3E + 3x2.5 + UEL KON	0.554	162	57.9	1575	1660	4488
053620	3x50+3x25/3E + 3x2.5 + UEL KON	0.386	202	59.9	2250	2016	5380
053946	3x70+3x35/3E + 3x2.5 + UEL KON	0.272	250	67	3150	2720	6450

Faber® (N)3GHSSHCH 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]	Ø [mm]	Fzv [N]	Cu	G [kg]
052536	3X35+3X16/3E + 3X2.5 + UEL KON	0.554	172	58.5	1575	1464	5160
052537	3X50+3X25/3E + 3X2.5 + UEL KON	0.386	215	61	2250	2016	5800
052806	3X70+3X35/3E + 3X2,5 + UEL KON	0.272	265	67	3150	2720	7320
052538	3X95+3X50/3E + 3X2.5 + UEL KON	0.206	319	69	4275	3722	8160
054822	3X120+3X70/3E + 3X2.5 + UEL KON	0.161	371	80	5400	4409	7911

Rl	Conductor resistance
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000

