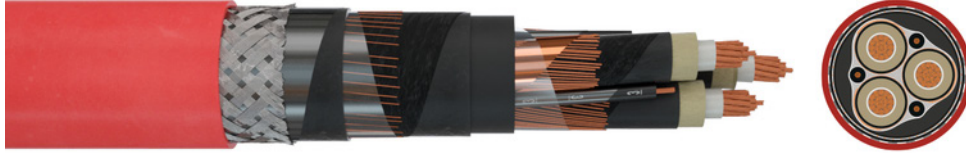


# Flexible medium voltage cable FABER<sup>®</sup> (N)3GHSSYCY



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

- General requirements: DIN VDE 0250-1
- Guide to use: DIN VDE 0298-3
- Electrical tests: DIN VDE 0472-501, -503, -508
- Non electrical tests DIN VDE 0472-401, -402, -602, -303, -615

## Construction and technical data:

<b>Standard:</b>	DIN VDE 0250-605 & IEC 60502-2 (with ref. to)
<b>Specification/Standard:</b>	DIN VDE 0250-605 & IEC 60502-2 (in Anlehnung/ with reference to)
<b>Conductor material:</b>	copper, bare
<b>Conductor construction:</b>	Class 5 = flexible
<b>Insulation:</b>	rubber 3GI3
<b>Electrical field control:</b>	inner and outer semiconducting rubber layer
<b>Pilot conductor:</b>	split in the outer interstices
<b>Core wrapping:</b>	plastic foil
<b>Arrangement of protective conductors:</b>	tinned copper wire braid over each phase
<b>Material inner sheath:</b>	PVC YM5
<b>Monitoring core:</b>	copper wire spinning on first inner sheath
<b>2nd inner sheath:</b>	DMV6
<b>Armour:</b>	steel wire braid, galvanized, min. coverage 75%
<b>Torsion:</b>	+/- 25 °/m
<b>Sheathing material:</b>	PVC DMV6
<b>Colour of outer sheath:</b>	red
<b>Flame-retardant:</b>	VDE 0482-332-1-2/IEC 60332-1-2
<b>UV-resistant:</b>	yes
<b>Ozone-resistant:</b>	yes
<b>Max. temperature at conductor, °C:</b>	90 °C
<b>Permitted outer cable temperature, fixed, °C:</b>	-40 - +80 °C
<b>Permitted outer cable temperature, moved, °C:</b>	5 - 80 °C
<b>Bending radius, fixed installation:</b>	5 x Ø
<b>Bending radius, moving application:</b>	10 x Ø
<b>Maximum tensile strength at the conductor:</b>	20 N/mm <sup>2</sup>
<b>Operating speed:</b>	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.

### Core identification

Main cores	nature colour
Pilot cores	black with numbers

### Faber<sup>®</sup> (N)3GHSSYCY 3.6/6 kV

**Nominal voltage U<sub>o</sub>:** 3.6 kV

**Nominal voltage U:** 6 kV

**Maximum permitted operating voltage in** 7.2 kV

#### three-phase systems:

part no.	part name	RI [Ohm/km]	I <sub>bl</sub> [A]	Ø [mm]	Cu	G [kg]
054036	3X95 + 3X50/3E + 3X2.5 + UEL KON	0.206	301	69.4	3722	7872

### (N)3GHSSYCY UT 6/10 kV

**Nominal voltage U<sub>o</sub>:** 6 kV

**Nominal voltage U:** 10 kV

**Maximum permitted operating voltage in** 12 kV

#### three-phase systems:

**Test voltage:** 17 kV

part no.	part name	RI [Ohm/km]	I <sub>bl</sub> [A]	Ø [mm]	Cu	G [kg]
054914	03X25 + 3X16/3E + 3X2.5 + UEL KON	0.78	131	56.5	1102	4239
054272	3X50 + 3X25/3E + 3X2.5 + UEL KON	0.386	202	62	2016	4391
054018	3X70 + 3X35/3E + 3X2.5 + UEL KON	0.272	250	66	2608	6301
053667	3X120 + 3X70/3E + 3X2.5 + UEL KON	0.161	352	76.1	4397	9260

### Faber<sup>®</sup> (N)3GHSSYCY 12/20 kV

**Nominal voltage U<sub>o</sub>:** 12 kV

**Nominal voltage U:** 20 kV

**Maximum permitted operating voltage in** 24 kV

#### three-phase systems:

**Test voltage:** 29 kV

part no.	part name	DI [mm]	RI [Ohm/km]	Wi [mm]	I <sub>bl</sub> [A]	Ø [mm]	Cu	G [kg]
052780	3X25 + 3X16/3E + 3X2,5 + UEL KON	6.8	0.78	3.5	139	58.5	1102	2843
052359	3X35 + 3X16/3E + 3X2.5 + UEL KON	7.7	0.554	3.5	172	58.5	1422	5160
052429	3X50 + 3X25/3E + 3X2.5 + UEL KON	9.2	0.386	3.5	215	61	2016	5800
052976	3X70 + 3X35/3E + 3X2,5 + UEL KON	11.1	0.272	3.5	265	66	2600	6930
052430	3X95 + 3X50/3E + 3X2.5 + UEL KON	12.7	0.206	3.5	319	69	3722	8160
052958	3X120 + 3X70/3E + 3X2,5 + UEL KON		0.161		371	74	4410	9760
052869	3X150 + 3X70/3E + 3X2,5 + UEL KON		0.129		428	78	5427	11000

DI	diameter conductor
RI	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000