

# Medium voltage mining cable SUPREMI<sup>®</sup> (N)TSCGEWOEU[SB]



**Application:** Flexible cable for fixed energy distribution lines in mines and alongside material handling equipment

## Construction and technical data:

<b>Standard:</b>	DIN VDE 0250-813 (with ref. 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>Arrangement of protective conductors:</b>	split in the outer interstices
<b>Material inner sheath:</b>	rubber GM1b
<b>Sheathing material:</b>	rubber 5GM5
<b>Flame-retardant:</b>	VDE 0482-332-1-2/IEC 60332-1-2
<b>UV-resistant:</b>	yes
<b>Oil-resistant:</b>	EN 60811-404
<b>Ozone-resistant:</b>	yes
<b>For outdoor use:</b>	yes
<b>Max. temperature at conductor, °C:</b>	90 °C
<b>Max. short circuit temperature at conductor, °C:</b>	250 °C
<b>Permitted outer cable temperature, fixed, °C:</b>	-40 - +80 °C
<b>Permitted outer cable temperature, moved, °C:</b>	-25 - +80 °C
<b>Bending radius, fixed installation:</b>	6 x Ø
<b>Bending radius, moving application:</b>	15 x Ø



*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.*

**SUPREMI<sup>®</sup>** (N)TSCGEWOEU[SB] 3.6/6 kV

<b>Colour of outer sheath:</b>	red
<b>Nominal voltage U<sub>o</sub>:</b>	3.6 kV
<b>Nominal voltage U:</b>	6 kV
<b>Maximum permitted operating voltage in three-phase systems:</b>	7.2 kV
<b>Test voltage:</b>	11 kV

part no.	part name	RI [Ohm/km]	I <sub>bl</sub> [A]	Ø [mm]	Cu	G [kg]
053154	3X120 + 3X70/3 RD	0.161	352	59.7	4128	6482
053155	3X150 + 3X70/3 RD	0.129	404	64.9	4992	7846

**SUPREMI<sup>®</sup>** (N)TSCGEWOEU[SB] 6/10 kV

<b>Colour of outer sheath:</b>	red
<b>Nominal voltage U<sub>o</sub>:</b>	6 kV
<b>Nominal voltage U:</b>	10 kV
<b>Maximum permitted operating voltage in three-phase systems:</b>	12 kV
<b>Test voltage:</b>	17 kV

part no.	part name	RI [Ohm/km]	I <sub>bl</sub> [A]	Ø [mm]	Cu	G [kg]
052858	3X35 + 3X25/3 RD	0.554	162	45.5	1248	2814
054687	3X50 + 3X25/3 RD	0.386	202	48.2	1680	3480
054529	3X50 + 3X35/3 RD	0.386	202	48.6	1776	3528
053412	3x70+3x35/3 RD	0.272	250	52.7	2352	4442
052859	3X70 + 3X50/3 RD	0.272	250	52.7	2496	4498
052860	3X95 + 3X50/3 RD	0.206	301	59	3216	5701
052861	3X120 + 3X70/3 RD	0.161	352	61.6	4128	6705
054688	3X150 + 3X70/3 RD	0.129	404	64.7	4992	7504
054024	3X150+3X95/3 RD	0.129	404	71.4	5232	9314
053347	3x150+2x70/2+10 RD	0.129	404	66.8	5088	7900
053413	3x185+3x95/3 RD	0.108	461	71.1	6240	9314
053232	3x240 + 3x120/3 RD	0.0801	528	83	8064	11813

**SUPREMI<sup>®</sup>** (N)TSCGEWOEU[SB] 8.7/15 kV

<b>Nominal voltage U<sub>o</sub>:</b>	8.7 kV
<b>Nominal voltage U:</b>	15 kV
<b>Maximum permitted operating voltage in three-phase systems:</b>	18 kV
<b>Test voltage:</b>	24 kV

part no.	part name	RI [Ohm/km]	I <sub>bl</sub> [A]	Ø [mm]	Cu	G [kg]
054787	3X185 + 3X95/3 RD	0.108	488	75.5	6240	9749

**SUPREMI<sup>®</sup>** (N)TSCGEW<sup>OE</sup>U[SB] 12/20 kV

**Nominal voltage U<sub>o</sub>:** 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	RI [Ohm/km]	I <sub>bl</sub> [A]	Ø [mm]	Cu	G [kg]
054624	3x35+3x25/3 RD	0.554	172	51.3	1248	3497
054046	3x70+3x35/3 RD	0.272	265	60.6	2352	5206
053344	3x70+3x35/3 BK (water resistant up to 100 m)	0.272	265	68.1	2352	6266

**SUPREMI<sup>®</sup>** (N)TSCGEW<sup>OE</sup>U[SB] 18/30 kV

**Colour of outer sheath:** red  
**Nominal voltage U<sub>o</sub>:** 18 kV  
**Nominal voltage U:** 30 kV  
**Maximum permitted operating voltage in three-phase systems:** 36 kV  
**Test voltage:** 43 kV

part no.	part name	RI [Ohm/km]	I <sub>bl</sub> [A]	Ø [mm]	Cu	G [kg]
054689	3X50 + 3X25/3 RD	0.386	202	64.7	1680	5365
053518	3x70 + 3x35/3 RD	0.272	265	70.2	2352	6434
054060	3x70 + 3x50/3 RD	0.272	265	70	2496	6532
053519	3x120 + 3x70/3 RD	0.161	371	79.6	4128	9055
054690	3X150 + 3X70/3 RD	0.129	404	82.5	4992	10154
054691	3X240 + 3X120/3 RD	0.0817	528	95.3	8064	14561

RI	Conductor resistance
I <sub>bl</sub>	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000