

# Flexible medium voltage cable Faber<sup>®</sup> Mining-F



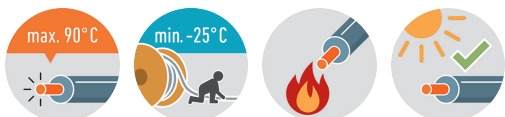
DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

**Application:** Flexible cable for fixed energy distribution lines in opencast minings, alongside conveyor systems, connection cables for transformers or bucket wheel excavators.

- Min. bending radius: acc. to VDE 0298-3
- Max. current rating: acc. to VDE 0298-4

## 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>	basic EPR
<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>Torsion:</b>	+/- 100 °/m
<b>Sheathing material:</b>	rubber 5GM5
<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>Oil-resistant:</b>	EN 60811-404
<b>Ozone-resistant:</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>	10 x Ø
<b>Maximum tensile strength at the conductor:</b>	15 N/mm <sup>2</sup>



**Faber<sup>®</sup> Mining-F 6/10 kV**

<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]	I <sub>k</sub> [kA]	Ø [mm]	Cu	G [kg]
053493	03x25+3x25/3	0.78	131	3.6	44	960	2658
053438	03x35+3x25/3	0.554	162	5	47	1248	3018

**Faber<sup>®</sup> Mining-F 12/20 kV**

<b>Nominal voltage U<sub>o</sub>:</b>	12 kV
<b>Nominal voltage U:</b>	20 kV
<b>Maximum permitted operating voltage in three-phase systems:</b>	24 kV
<b>Test voltage:</b>	29 kV

part no.	part name	RI [Ohm/km]	I <sub>bl</sub> [A]	I <sub>k</sub> [kA]	Ø [mm]	Cu	G [kg]
053496	03x35+3x25/3	0.554	138	5	54	1248	3766

RI	Conductor resistance
I <sub>bl</sub>	Ampacity in air (30 °C)
I <sub>k</sub>	Short-circuit current (1 s)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000