

# Flexible medium voltage cable Faber<sup>®</sup> Dredging cable /3E

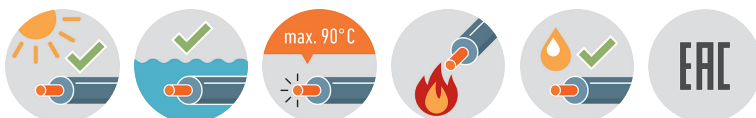


**Application:** Flexible medium voltage cable for permanent use in water, for example connecting dredgers, floating docks, pumps and open-cast mines.

Min. bending radius: acc. to DIN VDE 0298-3

## Construction and technical data:

<b>Standard:</b>	DIN VDE 0250-813 (with ref. to)
<b>Conductor material:</b>	tinned copper
<b>Conductor construction:</b>	Class 5 = flexible
<b>Insulation:</b>	rubber (EPR) 3GI3
<b>Electrical field control:</b>	inner and outer semiconducting rubber layer
<b>Arrangement of protective conductors:</b>	tinned copper wire braid over each phase
<b>Material inner sheath:</b>	rubber GM1b
<b>Sheathing material:</b>	rubber (CR) 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 - +90 °C
<b>Permitted outer cable temperature, moved, °C:</b>	-25 - +60 °C
<b>Bending radius, fixed installation:</b>	6 x Ø
<b>Bending radius, moving application:</b>	15 x Ø
<b>Maximum tensile strength at the conductor:</b>	15 N/mm <sup>2</sup>



*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<sup>®</sup>** Dredging cable /3E 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:****Test voltage:** 11 kV

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
053237	03x50 + 3x25/3E RD	0.393	51.7	1758	3630
054550	03x50 + 3x50/3E RD	0.393	51.7	1943	3990
054551	03x70 + 3x50/3E RD	0.277	57.8	2496	5209
054552	03x120 + 3x70/3E RD	0.154	67.4	4128	7521
054553	03x185+3x95/3E RD	0.108	73.2	6363	10165

**Faber<sup>®</sup>** Dredging cable /3E 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]	Ø [mm]	Cu	G [kg]
052898	03x35 + 3x25/3E RD	0.565	48.4	1302	2901
053238	03x50 + 3x25/3E RD	0.393	51.9	1758	3635
054279	03x95 + 3x50/3E RD	0.21	64	3270	5580
054406	03x240 + 3x120/3E RD	0.0817	79.4	8090	12023

**Faber<sup>®</sup>** Dredging cable /3E 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	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
052719	03x25 + 3x25/3E RT	0.795	51.5	1026	3380
052704	03X35 + 3X25/3E RT	0.565	56.3	1248	4160
052705	03X50 + 3X25/3E RT	0.393	59.6	1680	4860
053054	03X95 + 3X50/3E RT	0.21	68.3	3291	7000

**Faber<sup>®</sup>** Dredging cable /3E 14/25 kV**Nominal voltage U<sub>o</sub>:** 14 kV**Nominal voltage U:** 25 kV**Maximum permitted operating voltage in** 30 kV**three-phase systems:****Test voltage:** 36 kV

part no.	part name	RI [Ohm/km]	Ø [mm]	Cu	G [kg]
054443	03X35 + 3X25/3E RD	0.565	60.2	1408	4540

RI	Conductor resistance
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000