

# Heavy Duty PUR-Cable POLYFLEX MINE



**Application:** POLYFLEX MINE cables are designed for power supply connections to all types of mobile equipment and vehicles used in quarrying, open-cast mining and other large scale civil engineering operations. For applications in mining and milling sites, construction plants, industry etc.

## Construction and technical data:

<b>Conductor material:</b>	copper, bare
<b>Conductor construction:</b>	Class 5 = flexible
<b>Insulation:</b>	basic EPR
<b>Arrangement of protective conductors:</b>	split in the outer interstices
<b>Sheathing material:</b>	polyurethan
<b>Colour of outer sheath:</b>	yellow
<b>Flame-retardant:</b>	VDE 0482-332-1-2/IEC 60332-1-2
<b>Halogen-free:</b>	DIN EN 50267/IEC 60754
<b>UV-resistant:</b>	yes
<b>For outdoor use:</b>	yes
<b>Maximum temperature at conductor, °C:</b>	90 °C
<b>Permitted outer cable temperature, fixed, °C:</b>	-60 - +90 °C
<b>Permitted outer cable temperature, moved, °C:</b>	-30 - +90 °C
<b>Bending radius, fixed installation:</b>	10 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>
<b>Operating speed random, m/min.:</b>	80 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.*

**POLYFLEX MINE****Nominal voltage U<sub>o</sub>:** 0.6 kV**Nominal voltage U:** 1 kV**Maximum permitted operating voltage in** 1.2 kV**three-phase systems:****Core identification:** colours acc. to VDE 0293 (HD308)

part no.	part name	RI [Ohm/km]	I <sub>bl</sub> [A]	Ø [mm]	Cu [kg/km]	G [kg]
037329	03X35 + 3G6	0.554	158	26.8	1180	1615
037330	03X50 + 3G10	0.386	192	32.6	1728	2375
037331	03X70 + 3G16	0.272	246	36.8	2476	3255
037332	03X95 + 3G16	0.206	298	40.2	3196	3945
037333	03X120 + 3G25	0.161	346	47.5	4176	5385
037334	03X150 + 3G25	0.129	399	53.2	5040	6445
037335	03X25 + 3G6 + 2X2.5	0.78	127	23.8	941	1370
037336	03X35 + 3G6 + 2X2.5	0.554	158	26.8	1229	1715
037337	03X50 + 3G10 + 2X2.5	0.386	192	32.6	1776	2490
037338	03X70 + 3G16 + 2X2.5	0.272	246	36.8	2525	3345
037339	03X95 + 3G16 + 2X2.5	0.206	298	40.2	3245	4025
037340	03X120 + 3G25 + 2X2.5	0.161	346	47.5	4224	5405
037341	03X150 + 3G25 + 2X2.5	0.129	399	53.2	5088	6550
037342	03X185 + 3G35 + 2X2.5	0.106	456	57.6	6384	8080
037343	03X240 + 3G50 + 2X2.5	0.0801	538	62.8	8400	10140
037344	04G16	1.21	100	22.1	614	910

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