

The powerIO®-Line connects the powerIO®-Boxes with each other and transmits power and communication in one cable

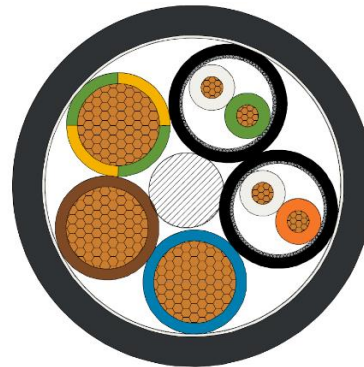
- Hybrid cable 3x4.00 mm<sup>2</sup> + 2x2x0.34 mm<sup>2</sup> (CAT7)
- Wide lengths or high currents through 4 mm<sup>2</sup> possible
- Easy and quick installation due to clear colors
- Up to 100 Mbit/s Ethernet possible
- High quality shielding
- UV resistant, halogen free



Technical data

<b>General data</b>	Name/Type	powerIO®-Line T1.L100
	Item number	100104

Structure graphics



<b>2 Elements (2 Li02YS 0.34 mm<sup>2</sup>) C11Y</b>	Cu-Litze:	19 x 0,15 mm Ø blank
	Wire Insulation	Cell-PE 1.55 ± 0.05 mm Ø (max. 1.6 mm)
	Wire colors	gn, or, 2xws
	Pair stranding	2 x 2 wires + gusset filler to pairs (ws/gn), (ws/or)
	C-shield	each braided from wires 0.10 mm Ø tinned
	Element jacket	each TPE-U (PUR) 4.30 ± 0.2 mm Ø -tubular -black similar to RAL 9005
<b>3 wires Li9Y 4.0 mm<sup>2</sup></b>	Cu-Litze	224 x 0,15 mm Ø blank
	Wire Insulation	PP 3,60 ± 0,1 mm Ø
	Wire colors	bl, br and a wire 4-sectors (gn/ge)
<b>Overall performance</b>	Stranding	Elements and cores around flexible core filler + PES fleece
	Jacket	TPE-U (PUR) 12.5 ± 0.4mm Ø -solid overmoulded
	Jacket color	Black similar to RAL 9005
	Cable weight	Approx. 244 kg/km

**Mechanical characteristics:**

For fixed installation, flexible use

Bending radius (fixed)	>7.5 x Ltgs. outside diameter
Bending radius (moved)	>15 x Ltgs. outside diameter

**Fire behaviour:**

Flame retardant according to DIN EN 60332-2-2 (20s)

**Thermal properties:**

Temperature range (fixed)	-40 bis + 80°C
Temperature range (moved)	-25 bis + 80°C

**Electrical characteristics:**

Rated voltage	30 V (0,34mm <sup>2</sup> ) / 300 V (4,0mm <sup>2</sup> )
Test voltage	1500 / 3000 V AC (economy test online)
Conductor resistance 4.00 mm <sup>2</sup>	max. 5 Ohm/km bei 20°C
Conductor resistance 0.34 mm <sup>2</sup>	max. 58 Ohm/km bei 20°C
Insulation resistance PP	min. 1000 MΩ x km bei 20°C

**Elements:**

Wave resistance	calc. approx. 100 Ω (f=100 MHz)
Capacity (A/A)	calc. approx. 54 pF/m (f=100 MHz)

**Complementary:**

Cable halogen free	
Cable according to BauPVO (DIN EN 50575) class FCA	
Jacket:	-oil resistant -resistant to hydrolysis and microbes -UV-resistant -seawater resistant -LS0H -Smoke density according to DIN EN 61034 (transmittance / light transmittance >=60 %)

Sicherheitshinweise



- The **powerIO®**-Line should not be installed in the immediate vicinity of frequency converters. Frequency converters must be wired with all protective measures to ensure that the required regulations and guidelines are observed (e.g. line filters etc.)

## Further notes

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