



300V, shielded, +90C, steel wire armour, EN50288-7, CPR Eca

**APPLICATION**

Instrumentation cable for optimal, lossless transmission of analogous and digital signals in measurement and process control technology. Suitable for intrinsically safe systems zone 1 and zone 2 group II classified areas acc. IEC 60079-14. Suitable for dry and humid rooms as well as outdoor use and laying underground.

**SPECIAL FEATURES**

- more steady at higher frequencies and temperatures (+90°C) by XLPE core insulation (cross-linked PE)
- high crosstalk and low cable attenuation
- largely resistant to acids, bases and usual oils; Standard EN 50288-7
- protection for high mech. requirements and magnetic shield (galvanized round or flat steel-wires, additional inner sheath)
- oil resistance: ICEA S-73-532 / NEMA WC 57-2004 § 6.9.3
- Sunlight resistance: UL 1581 Section 1200
- flame-retardant acc. IEC 60332-1-2 and IEC 60332-3-24 (Cat. C)

**REMARKS**

- RoHS-compliant; compliant with the 2014/35/EU Directive ("Low Voltage Directive") CE
- for intrinsically safe applications in Zone 1+2 of Group II in accordance with IEC 60079-14
- Special versions e.g. fire-resistant (mica), halogen-free, oil and chemical-resistant (lead sheath or GuardSheath - lead-free), BS 5308, MESC etc. are available on request >> also available as compensating cable > INDUTHERM <.

**PRODUCT DETAILS****DESIGN**

<b>Conductor material</b>	bare copper strand
<b>Conductor class</b>	7-wired construction acc. to IEC 60228 cl. 2
<b>Core insulation</b>	XLPE (cross-linked polyethylene)
<b>Core identification</b>	pairs pairs: single-coloured with numerals: core A: black, core B: white; triple: single-coloured, core A: white, core B: red, core C: black, core A and C with numerals
<b>Stranding</b>	pairs stranded in layers
<b>Shielding</b>	plastic clad aluminium foil (24 µm) with subjacent tinned drain wire 0.5mm <sup>2</sup> (7x0.30 mm)
<b>Inner sheath material</b>	PVC, black
<b>Overall shield</b>	galvanized round or flat steel-wires (SWA)
<b>Outer sheath material</b>	PVC
<b>Sheath colour</b>	black or blue RAL 5015 for intrinsically safe systems

**ELECTRICAL PROPERTIES**

<b>Rated voltage AC IEC</b>	300 V
<b>Testing voltage</b>	core/core (AC/DC): 1.5 / 2 kV (duration 1 minute)
<b>Conductor resistance</b>	0.5mm <sup>2</sup> : max.36.7 Ω/km; 0.75mm <sup>2</sup> : max.25.0 Ω/km; 1.3mm <sup>2</sup> : max.14.2 Ω/km
<b>Insulation resistance</b>	min. 5 GΩ x km
<b>Current carrying capacity</b>	acc. to DIN VDE, s. Techn. Guidelines
<b>Capacity</b>	max.115 nF/km
<b>Inductivity</b>	ca. 1 mH/km
<b>Coupling</b>	max. 500 pF/500 m

**MECHANICAL & DYNAMIC PROPERTIES**

Min. bending radius fixed 10 x d

**THERMAL PROPERTIES**

Operat. temp. fixed min./max. [°C] -40°C / +70°C

Operat. temp. moved min/max [°C] -5°C / +50°C

**PROPERTIES IN CASE OF FIRE**

Burning behavior self-extinguishing and flame-retardant acc. to IEC 60332-1-2 and IEC 60332-3-24 (Cat. C)

**ITEM OVERVIEW****INDULINE RE-2X(ST)YSWAY-FL - schwarz / black**

Item no. [TKD]	Dimension	Outer-Ø [mm]	Cu Index [kg/km]	Weight [kg/km]
2001340	1 X 2 X 0,5	10,1	15,0	207,0
2001341	2 X 2 X 0,5	12,7	24,0	276,0
2001344	4 X 2 X 0,5	13,6	44,0	334,0
2001345	8 X 2 X 0,5	16,7	84,0	458,0
2001348	12 X 2 X 0,5	19,2	123,0	573,0
2001349	16 X 2 X 0,5	22,1	163,0	789,0
2001352	24 X 2 X 0,5	25,5	242,0	1.005,0
2001353	1 X 2 X 0,75	10,5	17,0	222,0
2001356	2 X 2 X 0,75	13,4	34,0	322,0
2001357	4 X 2 X 0,75	14,3	64,0	383,0
2001360	8 X 2 X 0,75	18,2	124,0	537,0
2001362	12 X 2 X 0,75	21,7	184,0	813,0
2001364	16 X 2 X 0,75	23,7	244,0	971,0
2001365	24 X 2 X 0,75	27,8	364,0	1.255,0
2001514	36 X 2 X 1	33,0	911,0	1.819,0
2007208	1 X 2 X 1,3	11,5	34,0	256,0
2001466	2 X 2 X 1,3	15,5	60,0	392,0
2001372	4 X 2 X 1,3	16,7	114,0	504,0
2001373	8 X 2 X 1,3	22,1	218,0	848,0
2001376	12 X 2 X 1,3	24,7	322,0	1.095,0
2001377	16 X 2 X 1,3	28,4	426,0	1.214,0
2001380	24 X 2 X 1,3	34,1	684,0	1.632,0
2003870	1 X 2 X 1,5	11,9	39,0	260,0
2001381	1 X 3 X 1,3	11,9	50,0	281,0

**INDULINE RE-2X(ST)YSWAY-FL - blau / blue**

Item no. [TKD]	Dimension	Outer-Ø [mm]	Cu Index [kg/km]	Weight [kg/km]
2001339	1 X 2 X 0,5	10,1	15,0	207,0
2001342	2 X 2 X 0,5	12,7	24,0	276,0
2001343	4 X 2 X 0,5	13,6	44,0	334,0
2001346	8 X 2 X 0,5	16,7	84,0	458,0
2001347	12 X 2 X 0,5	19,2	123,0	573,0
2001350	16 X 2 X 0,5	22,1	163,0	789,0
2001351	24 X 2 X 0,5	25,5	242,0	1.005,0
2001354	1 X 2 X 0,75	10,5	17,0	222,0
2001355	2 X 2 X 0,75	13,4	34,0	322,0
2001358	4 X 2 X 0,75	14,3	64,0	383,0
2001359	8 X 2 X 0,75	18,2	124,0	537,0
2001361	12 X 2 X 0,75	21,7	184,0	813,0
2001363	16 X 2 X 0,75	23,7	244,0	971,0
2001366	24 X 2 X 0,75	27,8	364,0	1.255,0
2001367	1 X 2 X 1,3	11,4	34,0	256,0
2001468	2 X 2 X 1,3	15,5	60,0	392,0
2001371	4 X 2 X 1,3	16,7	114,0	504,0
2001374	8 X 2 X 1,3	22,1	218,0	848,0
2001375	12 X 2 X 1,3	25,4	322,0	1.095,0
2001378	16 X 2 X 1,3	28,4	426,0	1.214,0
2001379	24 X 2 X 1,3	34,1	684,0	1.632,0



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**INDULINE RE-2X(ST)YSWAY-FL - blau / blue**

Item no. [TKD]	Dimension	Outer-Ø [mm]	Cu Index [kg/km]	Weight [kg/km]
2001382	1 X 3 X 1,3	11,9	50,0	281,0