



DIN47100, 250V, twisted pairs, double shielded, CPR Eca



### APPLICATION

data transmission cable, control and connecting cable predominantly for transmission of analog and digital signals in process controlled facilities in measurement and control technology for lossless transmission of data and signals. For fixed laying and flexible applications with undefined cable routing and without tensile stress. Suitable for use in dry and humid rooms. Outdoor use only with UV-protection, no laying underground.



### SPECIAL FEATURES

- single shielded pairs with contact protection by special PVC-insulation
- twisted pairs
- largely resistant to acids, bases and specified types of oil
- free from lacquer damaging substances and silicone (during production)
- recommended for EMC-applications
- conform to 2014/35/EU-Guideline ("Low-Voltage Directive") CE

### PRODUCT DETAILS

#### DESIGN

Conductor material	bare copper strand
Conductor class	acc. to IEC 60228 cl. 5; exception: 0,34 mm <sup>2</sup> , stranded (7 x 0,25 mm)
Core insulation	PVC
Core identification	acc. to DIN 47100 different colours
Stranding	2 cores twisted to a pair; shielded pairs with sheath stranded in layers
Element shielding	copper braidpair-shild tinned; coverage approx. 85%
Inner sheath material	PVC pair-sheathing over braid
Protection against contact	plastic foil
Overall shield	copper braid tinned; coverage appr ox. 85%
Outer sheath material	PVC
Sheath colour	grey, RAL 7032

#### ELECTRICAL PROPERTIES

Rated voltage AC IEC	250 V; peak-voltage on 0,14 mm <sup>2</sup> : 350 V; > 0,14 mm <sup>2</sup> : 500 V
Testing voltage	on 0,14 mm <sup>2</sup> core/core: 1,2 kV; core/shield: 2kV > 0,14 mm <sup>2</sup> : core/core: 1,5 kV; core/shield: 2kV
Conductor resistance	acc. to IEC 60228 cl. 5
Insulation resistance	min. 20 MΩ x km
Current carrying capacity	acc. to DIN VDE, s. Techn. Guidelines
Capacity	core/core ca. 120 nF/km; core/shield ca. 160 nF/km

#### MECHANICAL & DYNAMIC PROPERTIES

Min. bending radius fixed	up to 12 mm Ø: 5 x d; up to 20 mm Ø: 7,5 x d; > 20 mm Ø: 10 x d
Min. bending radius moved	up to 12 mm Ø: 10 x d; up to 20 mm Ø: 15 x d; > 20 mm Ø: 20 x d

**THERMAL PROPERTIES**

Operat. temp. fixed min./max. [°C]	-30 °C / +80 °C
Operat. temp. moved min/max [°C]	-5 °C / +70 °C

**PROPERTIES IN CASE OF FIRE**

Burning behavior	self-extinguishing & flame-retardant acc.to IEC 60332-1
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**STANDARDS & APPROVALS**

Standard	similar to DIN VDE 0812
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**ITEM OVERVIEW****PAARTRONIC-CY-CY LIYCY-CY (TP)**

Item no. [TKD]	Dimension	Outer-Ø [mm]	Cu Index [kg/km]	Weight [kg/km]
0502588	2 X 2 X 0,14	7,7	46,0	100,0
0500689	3 X 2 X 0,14	8,0	66,0	115,0
0500682	4 X 2 X 0,14	8,6	86,0	150,0
0506574	5 X 2 X 0,14	10,7	98,0	180,0
0500687	6 X 2 X 0,14	11,0	104,0	208,0
0506941	8 X 2 X 0,14	13,0	125,0	240,0
0500668	2 X 2 X 0,25	9,5	59,0	120,0
0500678	3 X 2 X 0,25	10,0	75,0	145,0
0500683	4 X 2 X 0,25	11,2	93,0	180,0
0506942	5 X 2 X 0,25	12,0	104,0	210,0
0500688	6 X 2 X 0,25	13,5	130,0	260,0
0502311	8 X 2 X 0,25	15,5	161,0	320,0
0500664	12 X 2 X 0,25	18,5	239,0	430,0
0506943	16 X 2 X 0,25	22,0	316,0	610,0
0500676	24 X 2 X 0,25	26,0	442,0	750,0
0507262	24 X 2 X 0,25	26,0	442,0	750,0
0506944	32 X 2 X 0,25	29,4	588,0	865,0
0507261	32 X 2 X 0,25	29,4	588,0	865,0
0500669	2 X 2 X 0,34	12,7	67,0	135,0
0506945	3 X 2 X 0,34	13,8	90,0	167,0
0500685	4 X 2 X 0,34	15,6	111,0	224,0
0506946	6 X 2 X 0,34	18,6	156,0	312,0
0506947	8 X 2 X 0,34	20,8	185,0	360,0
0500677	2 X 2 X 0,5	12,3	80,0	190,0
0507693	3 X 2 X 0,5	12,3	106,0	190,0
0500686	4 X 2 X 0,5	16,8	189,0	290,0
0507614	6 X 2 X 0,5	15,6	202,0	319,0
0507256	8 X 2 X 0,5	19,6	239,0	420,0
0506339	2 X 2 X 0,75	12,2	95,0	179,0
0502613	3 X 2 X 0,75	13,5	123,7	237,0