



DIN47100, 250V, twisted pairs, 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

- 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

PRODUCT DETAILS

DESIGN

Conductor material	bare copper strand
Conductor class	acc. to IEC 60228 cl. 5; exception: 0,34 mm ² , stranded (7 x 0,25 mm)
Core insulation	PVC
Core identification	acc. to DIN 47100 different colours
Stranding	2 cores twisted to a pair; pairs stranded in layers
Protection against contact	plastic foil
Overall shield	copper braid tinned; coverage approx. 85%
Outer sheath material	PVC
Sheath colour	grey, RAL 7032

ELECTRICAL PROPERTIES

Rated voltage AC IEC	250 V; peak-voltage on 0,14 mm ² : 350 V; > 0,14 mm ² : 500 V
Testing voltage	on 0,14 mm ² core/core: 1,2 kV; core/shield: 1,0 kV > 0,14 mm ² : core/core: 1,5 kV; core/shield: 1,0 kV
Conductor resistance	acc. to IEC 60228 cl. 5
Insulation resistance	min. 20 MΩ x km
Current carrying capacity	acc. to DIN VDE, see Technical 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

STANDARDS & APPROVALS

Standard

similar to DIN VDE 0812

ITEM OVERVIEW

PAARTRONIC-CY LIYCY (TP)

Item no. [TKD]	Dimension	Outer-Ø [mm]	Cu Index [kg/km]	Weight [kg/km]
0501160	2 X 2 X 0,14	5,4	24,6	39,0
0501173	3 X 2 X 0,14	5,6	28,5	48,0
0501187	4 X 2 X 0,14	5,9	33,5	54,0
0501193	5 X 2 X 0,14	6,4	41,0	71,0
0501200	6 X 2 X 0,14	7,2	48,5	85,0
0501215	7 X 2 X 0,14	7,6	51,0	85,0
0501218	8 X 2 X 0,14	7,8	53,7	97,0
0501089	10 X 2 X 0,14	8,7	59,0	110,0
0501102	12 X 2 X 0,14	9,0	69,5	122,0
0501113	14 X 2 X 0,14	9,3	74,0	148,0
0501116	16 X 2 X 0,14	10,5	81,6	154,0
0501125	18 X 2 X 0,14	10,7	83,0	166,0
0501120	20 X 2 X 0,14	11,1	97,0	184,0
0501134	25 X 2 X 0,14	12,6	113,0	238,0
0501909	25 X 2 X 0,14	12,6	113,0	238,0
0501149	28 X 2 X 0,14	13,1	139,0	252,0
0501164	30 X 2 X 0,14	13,4	140,0	270,0
0506937	30 X 2 X 0,14	13,4	140,0	270,0
0501165	32 X 2 X 0,14	13,6	150,0	288,0
0501171	36 X 2 X 0,14	14,2	168,0	324,0
0501150	2 X 2 X 0,25	6,3	30,3	54,0
0507688	2 X 2 X 0,25	6,3	30,3	54,0
0501175	3 X 2 X 0,25	6,7	39,6	66,0
0501188	4 X 2 X 0,25	7,0	44,9	81,0
0501202	5 X 2 X 0,25	8,1	64,0	96,0
0501210	6 X 2 X 0,25	8,5	69,5	115,0
0501217	7 X 2 X 0,25	9,4	76,0	120,0
0501219	8 X 2 X 0,25	9,7	82,5	130,0
0501096	10 X 2 X 0,25	10,8	102,0	158,0
0501104	12 X 2 X 0,25	11,3	120,0	190,0
0501117	16 X 2 X 0,25	12,7	146,5	238,0
0501127	20 X 2 X 0,25	13,9	160,0	260,0
0501139	24 X 2 X 0,25	15,5	226,0	298,0
0506938	24 X 2 X 0,25	15,5	226,0	298,0
0502296	25 X 2 X 0,25	15,8	235,0	310,0
0501166	32 X 2 X 0,25	16,3	295,0	397,0
0501184	40 X 2 X 0,25	18,8	304,0	497,0
0501151	2 X 2 X 0,34	7,2	36,9	65,0
0501167	3 X 2 X 0,34	7,6	49,2	79,0
0501190	4 X 2 X 0,34	8,2	55,2	90,0
0501059	5 X 2 X 0,34	9,5	63,5	110,0
0501211	6 X 2 X 0,34	9,9	74,2	130,0
0502293	7 X 2 X 0,34	10,0	79,5	145,0
0501220	8 X 2 X 0,34	11,3	88,4	150,0
0506855	10 X 2 X 0,34	12,4	105,0	183,0
0501105	12 X 2 X 0,34	13,0	123,0	220,0
0501161	2 X 2 X 0,5	7,9	48,1	93,0
0501176	3 X 2 X 0,5	8,5	73,7	129,0
0501183	4 X 2 X 0,5	9,1	82,0	146,0
0502572	5 X 2 X 0,5	9,9	105,0	165,0
0501203	6 X 2 X 0,5	10,8	110,0	198,0
0501221	8 X 2 X 0,5	12,4	147,0	259,0
0506856	10 X 2 X 0,5	13,5	178,0	295,0
0501106	12 X 2 X 0,5	14,5	198,3	354,0
0501119	16 X 2 X 0,5	16,5	245,5	459,0
0501086	20 X 2 X 0,5	19,5	302,0	500,0
0501140	24 X 2 X 0,5	19,8	394,0	570,0
0506939	24 X 2 X 0,5	19,8	394,0	570,0
0507517	25 X 2 X 0,5	20,0	344,0	740,0

PAARTRONIC-CY LIYCY (TP)

Item no. [TKD]	Dimension	Outer-Ø [mm]	Cu Index [kg/km]	Weight [kg/km]
0503597	1 X 2 X 0,75	5,8	35,0	53,0
0501154	2 X 2 X 0,75	8,4	64,6	106,0
0501170	3 X 2 X 0,75	8,9	84,0	140,0
0501194	4 X 2 X 0,75	10,2	108,0	179,0
0502612	5 X 2 X 0,75	10,9	126,0	215,0
0501204	6 X 2 X 0,75	12,1	146,0	246,0
0501222	8 X 2 X 0,75	14,3	180,0	305,0
0501529	10 X 2 X 0,75	15,5	220,0	380,0
0501108	12 X 2 X 0,75	16,0	261,0	456,0
0501561	16 X 2 X 0,75	18,2	336,0	492,0
0501131	20 X 2 X 0,75	21,2	392,0	615,0
0502533	24 X 2 X 0,75	24,4	490,0	738,0
0501156	2 X 2 X 1	9,5	84,0	142,0
0501180	3 X 2 X 1	10,1	96,0	173,0
0501196	4 X 2 X 1	10,5	121,0	212,0
0501554	5 X 2 X 1	12,2	161,0	266,0
0501213	6 X 2 X 1	13,5	203,0	300,0
0501224	8 X 2 X 1	15,1	240,0	400,0
0506790	10 X 2 X 1	16,0	282,0	510,0
0501110	12 X 2 X 1	17,6	324,0	590,0
0501458	1 X 2 X 1,5	7,1	58,0	86,0
0501163	2 X 2 X 1,5	10,6	112,0	165,0
0501181	3 X 2 X 1,5	11,3	140,0	218,0
0501197	4 X 2 X 1,5	11,6	176,0	265,0
0507260	5 X 2 X 1,5	13,4	212,0	310,0
0501214	6 X 2 X 1,5	15,5	280,0	482,0
0501225	8 X 2 X 1,5	16,5	322,0	642,0
0506940	10 X 2 X 1,5	17,8	380,0	870,0
0501111	12 X 2 X 1,5	19,3	442,0	939,0
0507249	4 X 2 X 2,5	15,2	269,0	440,0