



DIN47100, 250V, shielded, CPR Eca



APPLICATION

halogen-free and environmentally data transmission cable, control and connecting cable predominantly for transmission of analog and digital signals in process controlled facilities in measurement and control technology, in fire vulnerable areas and facilities with high concentration of people and property values, for lossless transmission of datas 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

- free from lacquer damaging substances and silicone (during production)
- FRNC (Flame Retardant, non corrosive)
- LSF 0H (Low Smoke in Fume, Zero Halogen)
- 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	special halogen-free compound
Core identification	acc. to DIN 47100 different colours
Stranding	stranded in layers
Overall shield	copper braid tinned, coverage approx. 85%
Outer sheath material	special halogen-free compound
Sheath colour	grey, RAL 7001

ELECTRICAL PROPERTIES

Rated voltage AC IEC	U ₀ /U: 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 kV > 0,14 mm ² : core/core 1,5 kV; core/shield 1 kV
Conductor resistance	nach IEC 60228 cl. 5
Insulation resistance	min. 20 MΩ xkm
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 20 mm Ø 7,5 x d, > 20 mm Ø: 10 x d
Min. bending radius moved	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

Halogen-free	acc. to IEC 60754-2
Burning behavior	flame-retardant acc. to IEC 60332-3-24 (Cat. C)

STANDARDS & APPROVALS

Standard	similar to DIN VDE 0812
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ITEM OVERVIEW**ELITRONIC-CH LIHCH**

Item no. [TKD]	Dimension	Outer-Ø [mm]	Cu Index [kg/km]	Weight [kg/km]
0506973	2 X 0,14	3,6	12,0	20,0
0506974	3 X 0,14	3,7	13,0	28,0
0501566	4 X 0,14	3,9	14,3	33,0
0506975	5 X 0,14	4,2	15,5	38,0
0506976	6 X 0,14	4,9	17,4	43,0
0506977	7 X 0,14	4,9	20,3	49,0
0506978	8 X 0,14	5,2	21,2	56,0
0506979	10 X 0,14	5,8	28,5	66,0
0506980	12 X 0,14	6,0	30,4	78,0
0506982	14 X 0,14	6,3	32,0	80,0
0506983	15 X 0,14	6,4	37,8	86,0
0506984	16 X 0,14	6,6	43,0	90,0
0506985	18 X 0,14	6,9	48,8	104,0
0506986	20 X 0,14	7,3	53,9	116,0
0506987	21 X 0,14	7,3	55,5	121,0
0501546	25 X 0,14	8,0	63,0	149,0
0506988	2 X 0,25	4,1	16,0	32,0
0506989	3 X 0,25	4,2	21,0	37,0
0506990	4 X 0,25	4,9	24,0	41,3
0506991	5 X 0,25	5,3	29,0	51,2
0506992	6 X 0,25	5,7	30,0	58,0
0506993	7 X 0,25	5,8	37,0	65,0
0506994	8 X 0,25	6,1	42,0	73,0
0506995	10 X 0,25	6,8	46,0	82,0
0506996	12 X 0,25	7,3	59,0	91,0
0506997	14 X 0,25	7,6	62,0	99,0
0506998	15 X 0,25	7,8	63,0	111,0
0506999	16 X 0,25	8,0	64,0	124,0
0507000	18 X 0,25	8,4	83,0	143,0
0507001	20 X 0,25	8,7	88,0	152,3
0507002	21 X 0,25	8,7	93,0	161,0
0507003	25 X 0,25	9,7	114,0	172,0
0507004	2 X 0,34	4,7	21,0	37,0
0507005	3 X 0,34	4,8	27,0	49,0
0507006	4 X 0,34	5,2	28,0	59,0
0507007	5 X 0,34	5,6	30,0	66,0
0507008	6 X 0,34	6,0	45,0	79,0
0507009	7 X 0,34	6,1	48,0	83,0
0507010	8 X 0,34	6,5	52,0	94,0
0507011	10 X 0,34	7,4	74,0	129,2
0507012	12 X 0,34	7,7	80,0	142,0
0507013	14 X 0,34	8,1	86,0	154,0
0507014	15 X 0,34	8,2	90,0	155,0
0506438	16 X 0,34	8,5	94,0	160,0
0507015	18 X 0,34	8,9	103,0	173,0
0506547	20 X 0,34	9,3	112,0	192,0
0507016	21 X 0,34	9,3	116,0	199,2
0507017	25 X 0,34	10,6	135,0	259,0
0502652	2 X 0,5	5,3	29,0	54,0
0502343	3 X 0,5	5,5	38,0	67,0
0506807	4 X 0,5	5,9	43,0	77,0

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0507018	5 X 0,5	6,5	51,0	90,0
0507019	6 X 0,5	7,1	59,0	104,0
0507020	7 X 0,5	7,2	65,0	112,0
0502655	8 X 0,5	7,6	70,0	135,0
0507021	10 X 0,5	8,6	88,0	160,0
0507022	12 X 0,5	9,0	99,0	177,0
0507023	18 X 0,5	10,7	134,0	239,0
0507024	20 X 0,5	11,1	149,0	276,0
0507025	25 X 0,5	12,3	211,0	352,0
0503305	2 X 0,75	5,7	38,0	64,0
0503139	3 X 0,75	5,9	49,0	76,0
0506638	4 X 0,75	6,5	58,0	92,0
0507026	5 X 0,75	7,1	67,0	109,0
0507027	7 X 0,75	7,8	100,0	156,0
0507028	10 X 0,75	9,4	130,0	187,0
0507029	12 X 0,75	9,8	154,0	218,0
0503318	18 X 0,75	11,6	195,0	327,0
0507030	25 X 0,75	14,0	280,0	454,0
0507031	2 X 1	6,2	43,0	72,0
0507032	3 X 1	6,5	56,0	90,0
0507033	4 X 1	7,1	68,0	109,0
0507034	5 X 1	7,7	79,0	126,0
0507035	7 X 1	8,4	118,0	171,0
0507036	10 X 1	10,4	140,0	228,0
0503140	12 X 1	11,0	168,0	259,0
0507037	18 X 1	12,7	252,0	389,0
0507038	25 X 1	15,2	335,0	517,0
0502667	2 X 1,5	7,1	58,0	90,0
0502668	3 X 1,5	7,4	74,0	115,0
0507039	4 X 1,5	8,0	108,0	153,0
0507040	5 X 1,5	8,7	129,0	176,0
0507041	7 X 1,5	9,6	164,0	220,0
0507042	12 X 1,5	12,5	254,0	376,0
0507043	18 X 1,5	15,5	350,0	519,0
0507044	25 X 1,5	19,2	550,0	901,0