

EDV-PiMF-CY PE-insulated, low capacitance, EMC-preferred type, meter marking EAC



Technical data

- PE data cable
- **Temperature range**
flexing -5°C to +80°C
fixed installation -20°C to +80°C
- **Operating peak voltage** max. 300 V
(not for heavy current installation purposes)
- **Test voltage**
core/core 2000 V
core/screen 1000 V
- **Insulation resistance**
approx. 5 GOhm x km
- **Mutual capacitance** (approx. value)
core/core approx. 75pF/m
- **Inductance** approx. 0,4 mH/km
- **Cross-talk attenuation**
min. 60 dB at 100 kHz
- **Impedance** (approx. value)
at 1 kHz approx. 360 Ohm
at 10 kHz approx. 125 Ohm
at 100 kHz approx. 87 Ohm
at 1000 kHz approx. 70 Ohm
- **Line attenuation** (approx. value)
at 1 kHz approx. 1,1 dB
at 10 kHz approx. 2,7 dB
at 100 kHz approx. 6,8 dB
at 1000 kHz approx. 35 dB
- **Minimum bending radius**
flexing 10x cable Ø
fixed installation 5x cable Ø
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)
- **Coupling resistance**
max. 250 Ohm/km

Application

Absolute disturbance-free data transfer both for installed terminals in all areas of medicine and data technology. Also suitable for use in machine tool and steel producing industries, traffic signal systems, assembly lines and food processing.

EMC = Electromagnetic compatibility

To optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

CE = The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of PE
- Core identification to DIN 47100
- PiMF: (pair in metal foil) cores twisted in pairs; foil wrapped, plastic coated aluminium foil and copper drain-wire tinned, 100% coverage
- PiMFs are stranded in layer
- Foil wrapping
- Overall copper screened braiding, 85% coverage
- Outer sheath of PVC compound type TM2 adapted to DIN VDE 0207-363-4-1/DIN EN 50363-4-1
- Sheath colour grey (RAL 7032)
- with meter marking

Properties

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Tests

- PVC outer sheath self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Part no.	No.pairs x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
43553	2 x 2 x 0,5	8,7	50,0	101,0	20
43554	3 x 2 x 0,5	9,8	66,0	120,0	20
43524	4 x 2 x 0,5	10,8	108,0	196,0	20
43555	5 x 2 x 0,5	12,0	120,0	201,0	20
43525	6 x 2 x 0,5	13,1	148,0	260,0	20
43526	8 x 2 x 0,5	14,4	180,0	310,0	20
43527	10 x 2 x 0,5	17,3	236,0	398,0	20
43528	16 x 2 x 0,5	20,2	338,0	515,0	20
43529	20 x 2 x 0,5	21,6	394,0	688,0	20
43530	30 x 2 x 0,5	27,3	577,0	980,0	20
43531	40 x 2 x 0,5	28,9	684,0	1390,0	20
43532	50 x 2 x 0,5	31,4	834,0	1860,0	20
43556	2 x 2 x 0,75	10,1	61,0	117,0	19
43557	3 x 2 x 0,75	11,3	97,0	142,0	19
43533	4 x 2 x 0,75	12,2	141,0	240,0	19
43558	5 x 2 x 0,75	13,6	163,0	304,0	19
43534	6 x 2 x 0,75	15,1	198,0	352,0	19
43535	8 x 2 x 0,75	16,6	246,0	415,0	19
43536	10 x 2 x 0,75	19,7	305,0	505,0	19
43537	16 x 2 x 0,75	23,0	446,0	732,0	19
43538	20 x 2 x 0,75	24,7	530,0	860,0	19

Part no.	No.pairs x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
43539	30 x 2 x 0,75	30,3	765,0	1210,0	19
43559	2 x 2 x 1	12,3	72,0	130,0	18
43560	3 x 2 x 1	13,4	104,0	161,0	18
43540	4 x 2 x 1	14,8	186,0	360,0	18
43561	5 x 2 x 1	16,6	231,0	412,0	18
43541	6 x 2 x 1	18,4	260,0	472,0	18
43542	8 x 2 x 1	20,1	322,0	540,0	18
43543	10 x 2 x 1	23,9	382,0	670,0	18
43544	16 x 2 x 1	27,8	578,0	982,0	18
43545	20 x 2 x 1	30,3	710,0	1240,0	18
43546	30 x 2 x 1	36,0	1050,0	1720,0	18
43562	2 x 2 x 1,5	13,4	81,0	164,0	16
43563	3 x 2 x 1,5	14,9	141,0	197,0	16
43547	4 x 2 x 1,5	16,6	261,0	480,0	16
43564	5 x 2 x 1,5	18,4	284,0	516,0	16
43548	6 x 2 x 1,5	20,4	355,0	590,0	16
43549	8 x 2 x 1,5	22,4	448,0	696,0	16
43550	10 x 2 x 1,5	27,0	551,0	874,0	16
43551	16 x 2 x 1,5	31,0	838,0	1340,0	16
43552	20 x 2 x 1,5	32,1	1030,0	1620,0	16

Dimensions and specifications may be changed without prior notice. (RB01)