

EDV-PiMF-CY

PE-insulated, low capacitance, meter marking, EMC-preferred type



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
- **Mutual capacitance** at 800 Hz
core/core approx. 75 pF/m
- **Inductance**
approx. 0,4 mH/km
- **Cross-talk attenuation**
min. 60 dB at 100 kHz
- **Impedance**
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**
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
- **Coupling resistance**
max. 250 Ohm/km

Cable structure

- Bare copper conductor, fine wire
acc. to DIN VDE 0295 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: stranded in layers with
optimal lay length
- Foil wrapping
- Tinned copper braided screening,
approx. 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 during manufacturing
are cadmium-free, contain no silicone
and are free from substances harmful
to the wetting properties of lacquers

Tests

- Flame retardant
acc. to DIN VDE 0482-332-1-2 /
DIN EN 60332-1-2 / IEC 60332-1-2

Note

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

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 = Product conforms with Low-Voltage Directive 2014/35/EU.

Part no.	No.pairs x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
43553	2 x 2 x 0,5	9,1	50,0	101,0	20
43554	3 x 2 x 0,5	10,2	66,0	120,0	20
43524	4 x 2 x 0,5	11,1	108,0	196,0	20
43555	5 x 2 x 0,5	12,2	120,0	201,0	20
43525	6 x 2 x 0,5	14,0	148,0	260,0	20
43526	8 x 2 x 0,5	14,3	180,0	310,0	20
43527	10 x 2 x 0,5	16,0	236,0	398,0	20
43528	16 x 2 x 0,5	20,7	338,0	515,0	20
43529	20 x 2 x 0,5	23,2	394,0	688,0	20
43530	30 x 2 x 0,5	27,9	577,0	980,0	20
43531	40 x 2 x 0,5	31,0	684,0	1390,0	20
43532	50 x 2 x 0,5	34,7	834,0	1860,0	20
43556	2 x 2 x 0,75	10,5	61,0	117,0	19
43557	3 x 2 x 0,75	12,0	97,0	142,0	19
43533	4 x 2 x 0,75	12,9	141,0	240,0	19
43558	5 x 2 x 0,75	14,5	163,0	304,0	19
43534	6 x 2 x 0,75	15,8	198,0	352,0	19
43535	8 x 2 x 0,75	17,1	246,0	415,0	19
43536	10 x 2 x 0,75	19,2	305,0	505,0	19
43537	16 x 2 x 0,75	24,4	446,0	732,0	19
43538	20 x 2 x 0,75	27,3	530,0	860,0	19

Part no.	No.pairs x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
43539	30 x 2 x 0,75	32,1	765,0	1210,0	19
43559	2 x 2 x 1	12,6	72,0	130,0	18
43560	3 x 2 x 1	13,7	104,0	161,0	18
43540	4 x 2 x 1	15,0	186,0	360,0	18
43561	5 x 2 x 1	16,8	231,0	412,0	18
43541	6 x 2 x 1	18,9	260,0	472,0	18
43542	8 x 2 x 1	20,7	322,0	540,0	18
43543	10 x 2 x 1	22,7	382,0	670,0	18
43544	16 x 2 x 1	29,4	578,0	982,0	18
43545	20 x 2 x 1	32,4	710,0	1240,0	18
43546	30 x 2 x 1	38,1	1050,0	1720,0	18
43562	2 x 2 x 1,5	13,8	81,0	164,0	16
43563	3 x 2 x 1,5	15,2	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	19,7	284,0	516,0	16
43548	6 x 2 x 1,5	20,9	355,0	590,0	16
43549	8 x 2 x 1,5	22,0	448,0	696,0	16
43550	10 x 2 x 1,5	25,6	551,0	874,0	16
11009069	12 x 2 x 1,5	28,8	625,0	1095,0	16
43551	16 x 2 x 1,5	32,2	838,0	1340,0	16
43552	20 x 2 x 1,5	35,4	1030,0	1620,0	16

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