

# A-2Y(L)2Y Bd telephone-outdoor cable, according to VDE 0816, laminated sheath, unfilled



## Technical data

- According to DIN VDE 0816
- **Temperature range**  
flexible -20°C to +50°C  
fixed installation to +70°C
- **Loop resistance** at 20°C  
0,6 mm = max. 130 Ohm/km  
0,8 mm = max. 73,2 Ohm/km
- **Operating voltage** (peak voltage)  
max. 225 V
- **Test voltage**  
core/core U eff. 500<sup>2)</sup>  
core/screen U eff. 2000 V
- **Insulation resistance**  
min. 5 GOhm x km
- **Line attenuation**  
of side circuits at 800 Hz  
0,6 mm = 1,04 dB/km  
0,8 mm = 0,78 dB/km
- **Impedance**  
of side circuits at 800 Hz  
0,6 mm = 720 Ohm  
0,8 mm = 520 Ohm
- **Minimum bending radius**  
approx. 10x cable Ø
- **Radiation resistance**  
up to 80x10<sup>6</sup> cJ/kg (up to 80 Mrad)
- **Caloric load values**  
see Technical Informations

## Cable structure

- Bare copper conductor, solid, 0,6 and 0,8 mm Ø
- PE (2Y) core insulation, wall-thickness as per DIN VDE 0816 table 4
- Core identification of quads marked with black rings
- 4 cores twisted to a star quad
- 5 star quads stranded to sub units, each 5 or 10 sub units stranded to main units and the sub or main units stranded to cable core
- Core wrapping with several plastic tapes
- Outer sheath, as laminated sheath (L)2Y, PE-coated aluminium tape spliced with PE (2Y) sheath
- PE-outer sheath colour black
- Sheath marking continuously with telephone-receiver, meter marking in white colour

## Properties

- These are not allowed for the power installation
- For fire and hazardous areas, this cable type with PE-sheath, the installation is not permitted without enough protective precaution

### Mutual capacitance at 800 Hz

of all values 100%  
0,6 mm - max. 52 nF/km  
0,8 mm - max. 55 nF/km

of all values 95%  
0,6 mm - max. 50<sup>1)</sup> nF/km  
0,8 mm - max. 53<sup>1)</sup> nF/km

of all values 80%  
0,6 mm - max. 48 nF/km  
0,8 mm - max. 50 nF/km

**Capacitance unbalances at 800 Hz**  
of all values k<sub>1</sub> 100% - max. 800<sup>1)</sup> pF/300 m  
of all values k<sub>1</sub> 98% - max. 400 pF/300 m  
of all values k<sub>9-12</sub> 100% - max. 300<sup>1)</sup> pF/300 m  
of all values k<sub>9-12</sub> 98% - max. 100 pF/300 m

## Note

- <sup>1)</sup> But at least for 2 quads.
- <sup>2)</sup> Local cables with more than 100 pairs the test conductor/conductor is emitted.
- Conductor Ø 0,4 mm on request.

## Application

These external subscriber telephone cables are installed as telecommunication connection cable for connecting the telephone extension to the telephone exchange or central offices and as well as for industrial plants. These subscriber connecting cables are suitable for laying in under ground, in cable ducts and cable conduits - and also for indoor-laying. Both sides of PE-copolymere coated aluminium type (L), which is spliced with the outer PE-sheath ensures a **barrier against water vapour** and diagonally water-proof.

Black coloured PE-sheath is **UV-resistant**.

The Polyethelene material (PE 2Y) is **halogen-free**.

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

Part No.	No.pairs x diameter mm	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
34100	2 x 2 x 0,6	8,0	11,0	82,0
34101	4 x 2 x 0,6	10,0	23,0	127,0
34102	6 x 2 x 0,6	11,5	34,0	132,0
34103	10 x 2 x 0,6	12,5	57,0	171,0
34104	20 x 2 x 0,6	15,5	113,0	268,0
34105	30 x 2 x 0,6	17,5	170,0	358,0
34106	40 x 2 x 0,6	19,5	226,0	438,0
34107	50 x 2 x 0,6	21,0	283,0	531,0
34108	70 x 2 x 0,6	24,5	396,0	712,0
34109	100 x 2 x 0,6	28,0	565,0	950,0
34110	150 x 2 x 0,6	33,0	848,0	1348,0
34111	200 x 2 x 0,6	37,0	1131,0	1758,0
34112	250 x 2 x 0,6	40,5	1414,0	2137,0
34113	300 x 2 x 0,6	44,0	1696,0	2533,0
34114	350 x 2 x 0,6	47,5	1979,0	2954,0
34115	400 x 2 x 0,6	50,0	2262,0	3342,0

Part No.	No.pairs x diameter mm	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
34130	2 x 2 x 0,8	11,0	20,0	102,0
34131	4 x 2 x 0,8	12,0	40,0	158,0
34132	6 x 2 x 0,8	13,0	60,0	179,0
34133	10 x 2 x 0,8	14,5	101,0	241,0
34134	20 x 2 x 0,8	18,0	201,0	393,0
34135	30 x 2 x 0,8	21,0	302,0	540,0
34136	40 x 2 x 0,8	23,0	402,0	675,0
34137	50 x 2 x 0,8	25,5	503,0	842,0
34138	70 x 2 x 0,8	29,0	704,0	1105,0
34139	100 x 2 x 0,8	34,0	1005,0	1524,0
34140	150 x 2 x 0,8	40,0	1508,0	2208,0
34141	200 x 2 x 0,8	46,5	2011,0	2915,0
34142	250 x 2 x 0,8	51,0	2514,0	3575,0
34143	300 x 2 x 0,8	53,0	3016,0	4232,0
34144	350 x 2 x 0,8	56,5	3519,0	4940,0
34145	400 x 2 x 0,8	60,0	4022,0	5565,0
34146	500 x 2 x 0,8	68,0	5027,0	6955,0
34147	600 x 2 x 0,8	73,0	6032,0	8240,0

Dimensions and specifications may be changed without prior notice. (RP01)