

# Subscriber line cable

## A-2Y(L)2Y St III Bd



**Application:** For fixed installation indoors, outdoors, in the ground, in water and in concrete. The PE-sheath enables direct earth burial of the cable. It should be noted during installation in cable ducts and interior spaces that the PE-sheath is zero-halogen, yet not flame-retardant as defined under DIN VDE 0482-332-1.

Stranding: 4 cores twisted into star-quads, 5 star-quads stranded into one sub-unit, sub-units layed up in layers.

### Construction and technical data:

<b>Standard:</b>	VDE 0816
<b>Conductor material:</b>	copper, bare
<b>Conductor construction:</b>	Class 1 = solid
<b>Insulation:</b>	polyethylene 2YI1
<b>Stranding unit:</b>	Four strand
<b>Stranding:</b>	bunched star-quads
<b>Screen over strand:</b>	Foil
<b>Sheathing material:</b>	polyethylene 2YM1
<b>bonded sheath:</b>	yes
<b>Transversely watertight:</b>	yes
<b>Longitudinally watertight:</b>	no
<b>Colour of outer sheath:</b>	black
<b>Flame-retardant:</b>	none
<b>UV-resistant:</b>	yes
<b>For outdoor use:</b>	yes
<b>Permitted outer cable temperature, fixed, °C:</b>	-30 - +70 °C
<b>Permitted outer cable temperature, moved, °C:</b>	-20 - +50 °C
<b>Bending radius, fixed installation:</b>	7.5 x Ø



*The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.*

Core identification	
The star-quads of each bunch are continuous:	red, green, grey, yellow, white
The cores within one star-quad are marked by rings:	
a-wire 1	without ring
b-wire 1	one ring, wide spaced
a-wire 2	double ring, wide spaced
b-wire 2	double ring, narrow spaced

### A-2Y(L)2Y 0.6 mm

<b>Loop resistance:</b>	130 Ohm/km
<b>Maximum operating capacity:</b>	52 nF/km
<b>Test voltage:</b>	2 kV
<b>Core identification:</b>	colours + rings
<b>Attenuation at 800 Hz:</b>	1.04
<b>peak operating voltage, V:</b>	225 V

part no.	part name	DI [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
110080	02X2X0.6	0.6	9	300	11	80
110075	04X2X0.6	0.6	11	350	23	120
110025	06X2X0.6	0.6	12	400	34	130
110029	10X2X0.6	0.6	13.5	500	57	155
110035	20X2X0.6	0.6	16	700	113	240
110037	30X2X0.6	0.6	18	950	170	310
110039	40X2X0.6	0.6	20	1200	226	385
110041	50X2X0.6	0.6	21	1500	283	460
110043	70X2X0.6	0.6	25	2000	396	605
110027	100X2X0.6	0.6	28	2800	565	870
110031	150X2X0.6	0.6	33	4100	848	1345
110033	200X2X0.6	0.6	38	5200	1131	1755
110101	250X2X0.6	0.6	41.5	6400	1414	2140
110083	300X2X0.6	0.6	44.5	7400	1696	2525
110068	500X2X0.6	0.6	56	11500	2827	4050

### A-2Y(L)2Y 0.8 mm

<b>Loop resistance:</b>	73.2 Ohm/km
<b>Maximum operating capacity:</b>	55 nF/km
<b>Test voltage:</b>	2 kV
<b>Core identification:</b>	colours + rings
<b>Attenuation at 800 Hz:</b>	0.78
<b>peak operating voltage, V:</b>	225 V

part no.	part name	DI [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
110076	02X2X0.8	0.8	9	310	20	90
110024	04X2X0.8	0.8	12	380	40	140
110026	06X2X0.8	0.8	13	480	60	160
110093	08X2X0.8	0.8	14		81	180
110030	10X2X0.8	0.8	15	600	101	205
110092	12X2X0.8	0.8	15.2		123	250
110036	20X2X0.8	0.8	18.5	1000	201	355
110038	30X2X0.8	0.8	21	1500	302	475

part no.	part name	DI [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
110040	40X2X0.8	0.8	23	2000	402	600
110042	50X2X0.8	0.8	26	2500	503	745
110044	70X2X0.8	0.8	29	3400	704	1100
110028	100X2X0.8	0.8	34	4600	1005	1425
110032	150X2X0.8	0.8	40	6600	1508	2200
110034	200X2X0.8	0.8	44	8500	2011	2900

DI	diameter conductor
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000