



## A-2Y2YB2Y S(H115)/S(H145)/S(H95)

### Applications

The cables are designed in railways signalling networks, and are suitable for installation in ducts or laying directly into the ground.



### Standards

- Dlk 1.013.107y
- Dlk 1.013.108y (for 1.4/1.8mm conductor H95 type)
- Dlk 1.013.110y

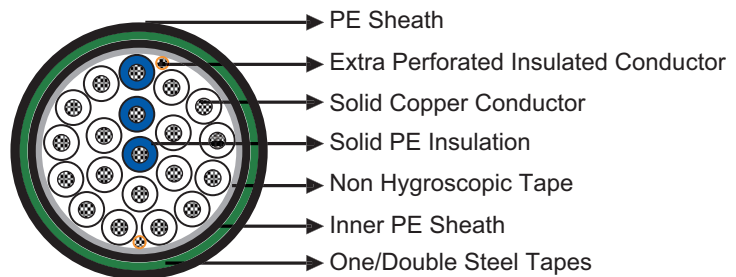
### Construction

- Conductors: Solid annealed copper, 0.9, 1.4 or 1.8 mm nominal diameter.

- Insulation: Solid polyethylene.
- Stranding: Single conductors are helically

stranded in concentric layers. Cables from 14 conductors on have two extra conductors of 0.5mm with perforated insulation (surveillance conductors).

- Core Wrapping: Plastic tape(s) with overlapping.
- Inner Sheath: Low density polyethylene.
- Armouring: One layer of galvanized steel tape (0.2-0.3mm) or two layers of galvanized steel tapes (0.1mm).
- Outer Sheath: Low density polyethylene.



### Type Codes

A-	outdoor cable
2Y	solid PE conductor insulation
2Y	inner PE sheath
B	steel tape armor
2Y	PE outer sheath
S	signal cable
LG	layer stranding
H(n)	operating capacity

### Electrical Characteristics at 20°C

Nominal Conductor Diameter	mm	0.9	1.4	1.8
Maximum Conductor Resistance	Ω/km	28.9	11.9	7.2

Minimum Insulation Resistance @500 V DC (1min)	MΩ.km	10000	10000	10000
Maximum Conductor Capacitance @800Hz (AC)	nF/km	115	145/95*	145/95*
Dielectric Strength, conductor to conductor (DC voltage 1min)	V	3535	3535	3535
Surveillance Conductors				
Loop resistance, maximum	Ω/km	190	190	190
Insulation resistance				
- dry cable core, minimum	MΩ.km	1000	1000	1000
- wet cable core, maximum	KΩ.km	30	30	30
Operating Voltage AC/DC	V	420/600	420/600	420/600
Test Voltage@50 Hz 1 min				
Core to Core	V <sub>eff</sub>	2500	2500	2500
Core to Screen	V <sub>eff</sub>	2500	2500	2500

\*The value "95" is only for cables with 1.4/1.8mm conductors according to Dlk 1.013.108y.

### ➤ Mechanical and Thermal Properties

- Minimum Bending Radius: 10×OD
- Temperature Range: -40°C to +60°C (during operation); -10°C +60°C (during installation)

### ➤ Dimensions and Weight

#### A-2Y2YB2Y n × 1 × 0.9 S(H115)

Cable Code	Number of conductors (n)	Nominal Sheath Thickness mm		Nominal Overall Diameter mm	Nominal Weight kg/km
		Inner	Outer		
0.9mm Conductor, 1.55mm Insulated Wire					
RS107y-2Y2YB2Y-2C0.9-S(H115)	2	1.3	1.2	12.0	120
RS107y-2Y2YB2Y-4C0.9-S(H115)	4	1.3	1.2	13.0	140
RS107y-2Y2YB2Y-7C0.9-S(H115)	7	1.3	1.2	14.0	170
RS107y-2Y2YB2Y-10C0.9-S(H115)	10	1.3	1.2	15.5	220
RS107y-2Y2YB2Y-14C0.9-S(H115)	14	1.3	1.2	16.0	260
RS107y-2Y2YB2Y-20C0.9-S(H115)	20	1.3	1.2	17.0	320
RS107y-2Y2YB2Y-24C0.9-S(H115)	24	1.3	1.2	19.0	370
RS107y-2Y2YB2Y-30C0.9-S(H115)	30	1.3	1.2	19.0	410
RS107y-2Y2YB2Y-40C0.9-S(H115)	40	1.3	1.2	20.0	500
RS107y-2Y2YB2Y-50C0.9-S(H115)	50	1.3	1.2	22.0	590
RS107y-2Y2YB2Y-60C0.9-S(H115)	60	1.3	1.2	23.0	680
RS107y-2Y2YB2Y-80C0.9-S(H115)	80	1.3	1.2	25.0	840
RS107y-2Y2YB2Y-100C0.9-S(H115)	100	1.3	1.3	28.0	1020
RS107y-2Y2YB2Y-120C0.9-S(H115)	120	1.3	1.3	29.0	1180
RS107y-2Y2YB2Y-140C0.9-S(H115)	140	1.3	1.3	31.0	1360

#### A-2Y2YB2Y n × 1 × 1.4/1.8 S(H145)

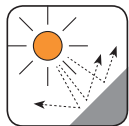
Cable Code	Number of conductors (n)	Nominal Sheath Thickness mm		Nominal Overall Diameter mm	Nominal Weight kg/km
		Inner	Outer		
1.4mm Conductor, 2.2mm Insulated Wire					
RS107y-2Y2YB2Y-4C1.4-S(H145)	4	1.3	1.2	14.0	190
RS107y-2Y2YB2Y-7C1.4-S(H145)	7	1.3	1.2	15.5	260
RS107y-2Y2YB2Y-10C1.4-S(H145)	10	1.3	1.2	18.0	340
RS107y-2Y2YB2Y-14C1.4-S(H145)	14	1.3	1.2	19.0	420
RS107y-2Y2YB2Y-20C1.4-S(H145)	20	1.3	1.2	21.0	550
RS107y-2Y2YB2Y-24C1.4-S(H145)	24	1.3	1.2	22.0	630



Cable Code	Number of conductors (n)	Nominal Sheath Thickness mm		Nominal Overall Diameter mm	Nominal Weight kg/km
		Inner	Outer		
RS107y-2Y2YB2Y-30C1.4-S(H145)	30	1.3	1.2	23.0	750
RS107y-2Y2YB2Y-40C1.4-S(H145)	40	1.3	1.2	25.0	940
RS107y-2Y2YB2Y-50C1.4-S(H145)	50	1.3	1.3	28.0	1140
RS107y-2Y2YB2Y-60C1.4-S(H145)	60	1.3	1.3	30.0	1320
1.8mm Conductor, 2.7mm Insulated Wire					
RS107y-2Y2YB2Y-4C1.8-S(H145)	4	1.3	1.2	15.5	250
RS107y-2Y2YB2Y-7C1.8-S(H145)	7	1.3	1.2	17.0	350
RS107y-2Y2YB2Y-10C1.8-S(H145)	10	1.3	1.2	20.0	470
RS107y-2Y2YB2Y-14C1.8-S(H145)	14	1.3	1.2	21.0	600
RS107y-2Y2YB2Y-20C1.8-S(H145)	20	1.3	1.2	24.0	800
RS107y-2Y2YB2Y-24C1.8-S(H145)	24	1.3	1.2	26.0	910
RS107y-2Y2YB2Y-30C1.8-S(H145)	30	1.3	1.2	27.0	1100
RS107y-2Y2YB2Y-40C1.8-S(H145)	40	1.3	1.2	30.0	1400

## A-2Y2YB2Y n x 1 x 1.4 S(H95)

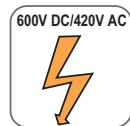
Cable Code	Number of conductors (n)	Nominal Sheath Thickness mm		Nominal Overall Diameter mm	Nominal Weight kg/km
		Inner	Outer		
1.4mm Conductor, 2.7mm Insulated Wire					
RS108y-2Y2YB2Y-10C1.4-S(H95)	10	1.3	1.2	18.0	390
RS108y-2Y2YB2Y-14C1.4-S(H95)	14	1.3	1.2	20.0	480
RS108y-2Y2YB2Y-20C1.4-S(H95)	20	1.3	1.2	22.0	610
1.8mm Conductor, 3.4mm Insulated Wire					
RS108y-2Y2YB2Y-10C1.8-S(H95)	10	1.3	1.2	21.0	550
RS108y-2Y2YB2Y-14C1.8-S(H95)	14	1.3	1.2	23.0	700



UV Resistant



Water Resistant



Rated Voltage



Laid In Ducts



Buried in Ciround



Zero Halogen  
IEC 60754-1/NF C20-454  
EN 50267-2-1

