

A-2Y2Yv S(H115)/S(H145)/S(H95)

Applications

The cables are designed for general uses in protective devices in railways signalling networks, and are suitable for installation in ducts.



Standards

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

Construction

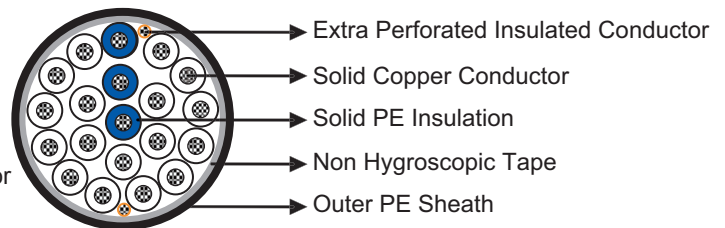
• Conductors: Solid annealed copper, 0.9, 1.4 or 1.8 mm nominal diameter.

• Insulation: Solid polyethylene.

• Stranding: Single conductors are helically stranded in concentric layers. Cables from 14 conductors on, have two extra conductors with perforated insulation (surveillance conductors).

• Core Wrapping: Plastic tape(s) with overlapping.

• Outer Sheath: Low density polyethylene.



Type Codes

A-	outdoor cable
2Y	solid PE conductor insulation
2Yv	PE sheath with increased wall thickness
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 _{eff}	2500	2500	2500
Core to Screen	V _{eff}	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: 7.5×OD
- Temperature Range: -40°C to +60°C (during operation); -10°C to +60°C (during installation)

➤ Dimensions and Weight

A-2Y2Yv n × 1 × 0.9 S(H115)

Cable Code	Number of conductors (n)	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
0.9mm Conductor, 1.55mm Insulated Wire				
RS107y-2Y2Yv-2C0.9-S(H115)	2	2.0	9.0	60
RS107y-2Y2Yv-4C0.9-S(H115)	4	2.0	9.0	75
RS107y-2Y2Yv-7C0.9-S(H115)	7	2.0	11.0	100
RS107y-2Y2Yv-10C0.9-S(H115)	10	2.0	12.0	130
RS107y-2Y2Yv-14C0.9-S(H115)	14	2.0	13.0	170
RS107y-2Y2Yv-20C0.9-S(H115)	20	2.0	14.0	220
RS107y-2Y2Yv-24C0.9-S(H115)	24	2.0	15.0	260
RS107y-2Y2Yv-30C0.9-S(H115)	30	2.2	16.0	310
RS107y-2Y2Yv-40C0.9-S(H115)	40	2.2	17.0	380
RS107y-2Y2Yv-50C0.9-S(H115)	50	2.2	19.0	460
RS107y-2Y2Yv-60C0.9-S(H115)	60	2.2	20.0	540
RS107y-2Y2Yv-80C0.9-S(H115)	80	2.2	22.0	690
RS107y-2Y2Yv-100C0.9-S(H115)	100	2.2	25.0	850
RS107y-2Y2Yv-120C0.9-S(H115)	120	2.2	26.0	990
RS107y-2Y2Yv-140C0.9-S(H115)	140	2.2	28.0	1150
RS107y-2Y2Yv-160C0.9-S(H115)	160	2.2	29.0	1260
RS107y-2Y2Yv-180C0.9-S(H115)	180	2.2	32.0	1460
RS107y-2Y2Yv-200C0.9-S(H115)	200	2.2	32.0	1600

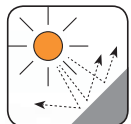
A-2Y2Yv n × 1 × 1.4/1.8 S(H145)

Cable Code	Number of conductors (n)	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1.4mm Conductor, 2.2mm Insulated Wire				
RS107y-2Y2Yv-4C1.4-S(H145)	4	2.0	11.0	120
RS107y-2Y2Yv-7C1.4-S(H145)	7	2.0	12.0	180
RS107y-2Y2Yv-10C1.4-S(H145)	10	2.0	15.0	240
RS107y-2Y2Yv-14C1.4-S(H145)	14	2.2	16.0	320
RS107y-2Y2Yv-20C1.4-S(H145)	20	2.2	17.0	430
RS107y-2Y2Yv-24C1.4-S(H145)	24	2.2	19.0	500
RS107y-2Y2Yv-30C1.4-S(H145)	30	2.2	20.0	600
RS107y-2Y2Yv-40C1.4-S(H145)	40	2.2	22.0	770
RS107y-2Y2Yv-50C1.4-S(H145)	50	2.2	24.0	950
RS107y-2Y2Yv-60C1.4-S(H145)	60	2.2	26.0	1120
RS107y-2Y2Yv-80C1.4-S(H145)	80	2.2	29.0	1450
RS107y-2Y2Yv-100C1.4-S(H145)	100	2.2	33.0	1810

Cable Code	Number of conductors (n)	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
RS107y-2Y2Yv-120C1.4-S(H145)	120	2.2	35.0	2140
RS107y-2Y2Yv-140C1.4-S(H145)	140	2.2	37.0	2470
RS107y-2Y2Yv-160C1.4-S(H145)	160	2.2	39.0	2800
RS107y-2Y2Yv-180C1.4-S(H145)	180	2.2	42.0	3140
RS107y-2Y2Yv-200C1.4-S(H145)	200	2.2	43.0	3460
1.8mm Conductor, 2.7mm Insulated Wire				
RS107y-2Y2Yv-4C1.8-S(H145)	4	2.0	12.0	170
RS107y-2Y2Yv-7C1.8-S(H145)	7	2.0	14.0	260
RS107y-2Y2Yv-10C1.8-S(H145)	10	2.0	17.0	355
RS107y-2Y2Yv-14C1.8-S(H145)	14	2.2	18.0	475
RS107y-2Y2Yv-20C1.8-S(H145)	20	2.2	21.0	655
RS107y-2Y2Yv-24C1.8-S(H145)	24	2.2	22.0	760
RS107y-2Y2Yv-30C1.8-S(H145)	30	2.2	24.0	930
RS107y-2Y2Yv-40C1.8-S(H145)	40	2.2	27.0	1210
RS107y-2Y2Yv-50C1.8-S(H145)	50	2.2	29.0	1480
RS107y-2Y2Yv-60C1.8-S(H145)	60	2.2	31.0	1760
RS107y-2Y2Yv-80C1.8-S(H145)	80	2.2	35.0	2310
RS107y-2Y2Yv-100C1.8-S(H145)	100	2.2	40.0	2860
RS107y-2Y2Yv-120C1.8-S(H145)	120	2.2	42.0	3390
RS107y-2Y2Yv-140C1.8-S(H145)	140	2.2	46.0	3930
RS107y-2Y2Yv-160C1.8-S(H145)	160	2.2	49.0	4500
RS107y-2Y2Yv-180C1.8-S(H145)	180	2.2	52.0	5100
RS107y-2Y2Yv-200C1.8-S(H145)	200	2.2	53.0	5600

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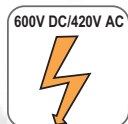
Cable Code	Number of conductors (n)	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1.4mm Conductor, 2.7mm Insulated Wire				
RS108y-2Y2Yv-10C1.4-S(H95)	10	2.0	16.0	270
RS108y-2Y2Yv-14C1.4-S(H95)	14	2.0	18.0	350
RS108y-2Y2Yv-20C1.4-S(H95)	20	2.0	20.0	470
RS108y-2Y2Yv-30C1.4-S(H95)	30	2.2	24.0	670
RS108y-2Y2Yv-50C1.4-S(H95)	50	2.2	29.0	1050
1.8mm Conductor, 3.4mm Insulated Wire				
RS108y-2Y2Yv-10C1.8-S(H95)	10	2.0	19.0	400
RS108y-2Y2Yv-14C1.8-S(H95)	14	2.2	21.0	540
RS108y-2Y2Yv-20C1.8-S(H95)	20	2.2	24.0	730
RS108y-2Y2Yv-30C1.8-S(H95)	30	2.2	28.0	1050
RS108y-2Y2Yv-50C1.8-S(H95)	50	2.2	36.0	1700



UV Resistant



Water Resistant



Rated Voltage



Laid In Ducts



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

