

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.



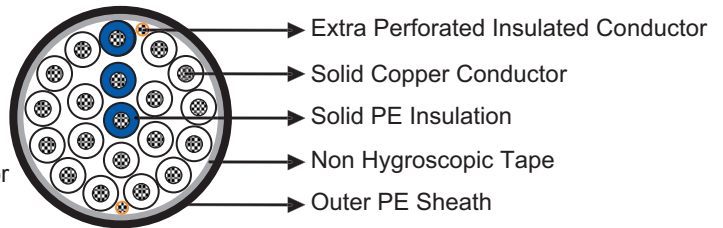
Standards

- 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

| | mm | 0.9 | 1.4 | 1.8 |
|---|-------|-------|---------|---------|
| 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)

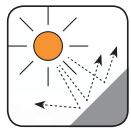
| Cable Code | Number of conductors (n) | Nominal Sheath Thickness mm | Nominal Overall Diameter mm | Nominal Weight kg/km |
|---------------------------------------|--------------------------|-----------------------------|-----------------------------|----------------------|
| 1.4mm Conductor, 2.2mm 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 |

A-2Y2Yv n x 1 x 1.4/1.8 S(H95)

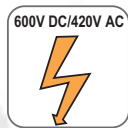
| Cable Code | Number of conductors (n) | Nominal Sheath Thickness mm | Nominal Overall Diameter mm | Nominal Weight kg/km |
|---------------------------------------|--------------------------|-----------------------------|-----------------------------|----------------------|
| 1.4mm Conductor, 2.7mm 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

