AJ-2Y2YDB2Y S(H115)/S(H145)/S(H95)

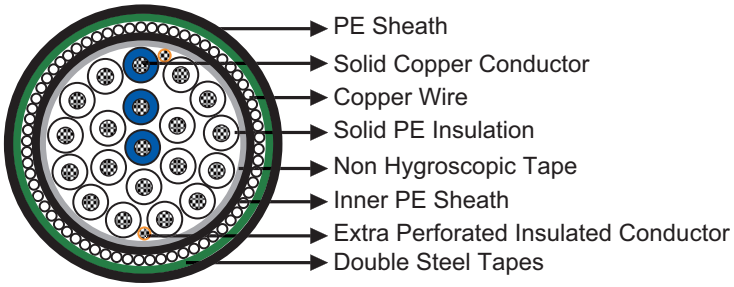
Applications

The cables are designed for transmission of service tensions up to 600 VDC / 420 V_{eff} AC100Hz in railway signalling networks, and are suitable for installation in ducts or laying directly into the ground.

Standards

- Dlk 1.013.107y
- 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.
- Electrostatic Shield: One layer of helically applied copper wires (0.9, 1.2, 1.4 or 1.8mm).
- Electromagnetic Shield: Two helically applied steel tapes (0.5 or 0.8mm thick, depending on required reduction factor).
- Outer Sheath: Low density polyethylene.

Type Codes

AJ-	outdoor cable with protection against inductive influences
2Y	solid PE conductor insulation
2Y	inner PE sheath
D	copper wire concentric screen
B	steel tape armor
2Y	outer PE sheath
S	signal cable
LG	layer stranding
H (n)	operating capacity

Electrical Characteristics at 20℃

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 Mutual 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
Nominal Reduction Factor @ 100 V/km, 16 2/3 Hz				
rk 401 series		0.15	0.15	0.15
rk 501 series		0.35	0.35	0.35
rk 601 series		0.55	0.55	0.55
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: 10×OD
- Temperature Range: -40℃ to +60℃ (during operation); -10℃ +60℃ (during installation)

Dimensions and Weight

AJ–2Y2YDB2Y 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 rk 601 Series					
RS107y-2Y2YDB2Y-10C0.9-S(H115)-R6	10	1.3	1.2	19.0	520
RS107y-2Y2YDB2Y-20C0.9-S(H115)-R6	20	1.3	1.2	20.0	650
RS107y-2Y2YDB2Y-30C0.9-S(H115)-R6	30	1.3	1.2	22.0	780
RS107y-2Y2YDB2Y-50C0.9-S(H115)-R6	50	1.3	1.2	25.0	1010
RS107y-2Y2YDB2Y-80C0.9-S(H115)-R6	80	1.3	1.2	29.0	1330
RS107y-2Y2YDB2Y-120C0.9-S(H115)-R6	120	1.3	1.3	32.0	1740
RS107y-2Y2YDB2Y-160C0.9-S(H115)-R6	160	1.3	1.3	35.0	2310
RS107y-2Y2YDB2Y-200C0.9-S(H115)-R6	200	1.3	1.3	38.0	2520
0.9mm Conductor, 1.55mm Insulated Wire rk 501 Series					
RS107y-2Y2YDB2Y-10C0.9-S(H115)-R5	10	1.3	1.2	19.0	600
RS107y-2Y2YDB2Y-20C0.9-S(H115)-R5	20	1.3	1.2	20.0	740
RS107y-2Y2YDB2Y-30C0.9-S(H115)-R5	30	1.3	1.2	22.0	890
RS107y-2Y2YDB2Y-50C0.9-S(H115)-R5	50	1.3	1.3	25.0	1150
RS107y-2Y2YDB2Y-80C0.9-S(H115)-R5	80	1.3	1.3	29.0	1480
RS107y-2Y2YDB2Y-120C0.9-S(H115)-R5	120	1.5	1.3	32.0	1910
RS107y-2Y2YDB2Y-160C0.9-S(H115)-R5	160	1.5	1.3	35.0	2530
RS107y-2Y2YDB2Y-200C0.9-S(H115)-R5	200	1.5	1.5	38.0	2730

AJ–2Y2YDB2Y 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 rk 601 Series					
RS107y-2Y2YDB2Y-10C1.4-S(H145)-R6	10	1.3	1.2	21	670
RS107y-2Y2YDB2Y-20C1.4-S(H145)-R6	20	1.3	1.2	23.5	940
RS107y-2Y2YDB2Y-30C1.4-S(H145)-R6	30	1.3	1.2	27	1180
RS107y-2Y2YDB2Y-50C1.4-S(H145)-R6	50	1.3	1.2	31	1650
RS107y-2Y2YDB2Y-80C1.4-S(H145)-R6	80	1.3	1.2	35	2270
RS107y-2Y2YDB2Y-120C1.4-S(H145)-R6	120	1.3	1.3	41	3110
RS107y-2Y2YDB2Y-160C1.4-S(H145)-R6	160	1.3	1.3	46	3900
RS107y-2Y2YDB2Y-200C1.4-S(H145)-R6	200	1.3	1.3	49	4670
1.4mm Conductor, 2.2mm Insulated Wire rk 501 Series					
RS107y-2Y2YDB2Y-10C1.4-S(H145)-R5	10	1.3	1.2	21	780
RS107y-2Y2YDB2Y-20C1.4-S(H145)-R5	20	1.3	1.2	23.5	1070
RS107y-2Y2YDB2Y-30C1.4-S(H145)-R5	30	1.3	1.2	26	1320
RS107y-2Y2YDB2Y-50C1.4-S(H145)-R5	50	1.3	1.3	31	1810
RS107y-2Y2YDB2Y-80C1.4-S(H145)-R5	80	1.3	1.3	35	2460
RS107y-2Y2YDB2Y-120C1.4-S(H145)-R5	120	1.5	1.3	42	3380
RS107y-2Y2YDB2Y-160C1.4-S(H145)-R5	160	1.5	1.3	46	4190
RS107y-2Y2YDB2Y-200C1.4-S(H145)-R5	200	1.5	1.5	49	5000
1.4mm Conductor, 2.2mm Insulated Wire rk 401 Series					
RS107y-2Y2YDB2Y-10C1.4-S(H145)-R4	10	1.3	1.2	23	960
RS107y-2Y2YDB2Y-20C1.4-S(H145)-R4	20	1.3	1.2	25.6	1260
RS107y-2Y2YDB2Y-30C1.4-S(H145)-R4	30	1.3	1.3	28	1940
RS107y-2Y2YDB2Y-50C1.4-S(H145)-R4	50	1.3	1.3	33	2450
RS107y-2Y2YDB2Y-80C1.4-S(H145)-R4	80	1.5	1.3	38	3280
RS107y-2Y2YDB2Y-120C1.4-S(H145)-R4	120	1.5	1.5	44	4290
RS107y-2Y2YDB2Y-160C1.4-S(H145)-R4	160	1.5	1.5	48	5200
RS107y-2Y2YDB2Y-200C1.4-S(H145)-R4	200	1.5	1.5	52	6060
1.8mm Conductor, 2.7mm Insulated Wire rk 601 Series					
RS107y-2Y2YDB2Y-10C1.8-S(H145)-R6	10	1.3	1.2	23	850
RS107y-2Y2YDB2Y-20C1.8-S(H145)-R6	20	1.3	1.2	27	1260
RS107y-2Y2YDB2Y-30C1.8-S(H145)-R6	30	1.3	1.3	30	1620
RS107y-2Y2YDB2Y-50C1.8-S(H145)-R6	50	1.3	1.3	36	2080
RS107y-2Y2YDB2Y-80C1.8-S(H145)-R6	80	1.5	1.3	41	3310
RS107y-2Y2YDB2Y-120C1.8-S(H145)-R6	120	1.5	1.5	48	4570
RS107y-2Y2YDB2Y-160C1.8-S(H145)-R6	160	1.5	1.5	54	5950
RS107y-2Y2YDB2Y-200C1.8-S(H145)-R6	200	1.5	1.5	58	6970
1.8mm Conductor, 2.7mm Insulated Wire rk 501 Series					
RS107y-2Y2YDB2Y-10C1.8-S(H145)-R5	10	1.3	1.2	23	970
RS107y-2Y2YDB2Y-20C1.8-S(H145)-R5	20	1.3	1.2	27	1410
RS107y-2Y2YDB2Y-30C1.8-S(H145)-R5	30	1.3	1.3	30	1780
RS107y-2Y2YDB2Y-50C1.8-S(H145)-R5	50	1.3	1.3	36	2520
RS107y-2Y2YDB2Y-80C1.8-S(H145)-R5	80	1.5	1.3	42	3570
RS107y-2Y2YDB2Y-120C1.8-S(H145)-R5	120	1.5	1.5	49	5950
RS107y-2Y2YDB2Y-160C1.8-S(H145)-R5	160	1.5	1.5	55	6170
RS107y-2Y2YDB2Y-200C1.8-S(H145)-R5	200	1.5	1.5	59	7380
1.8mm Conductor, 2.7mm Insulated Wire rk 401 Series					
RS107y-2Y2YDB2Y-10C1.8-S(H145)-R4	10	1.3	1.2	25	1160
RS107y-2Y2YDB2Y-20C1.8-S(H145)-R4	20	1.3	1.2	29	1700
RS107y-2Y2YDB2Y-30C1.8-S(H145)-R4	30	1.3	1.3	32	2400
RS107y-2Y2YDB2Y-50C1.8-S(H145)-R4	50	1.3	1.3	38	3350
RS107y-2Y2YDB2Y-80C1.8-S(H145)-R4	80	1.5	1.3	44	3310
RS107y-2Y2YDB2Y-120C1.8-S(H145)-R4	120	1.5	1.5	51	4900
RS107y-2Y2YDB2Y-160C1.8-S(H145)-R4	160	1.5	1.5	57	7340
RS107y-2Y2YDB2Y-200C1.8-S(H145)-R4	200	1.5	1.5	61	8650

AJ–2Y2YDB2Y n × 1 × 1.4/1.8 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 rk 501 Series					
RS108y-2Y2YDB2Y-10C1.4-S(H95)-R5	10	1.3	1.2	22.0	900
RS108y-2Y2YDB2Y-14C1.4-S(H95)-R5	14	1.3	1.2	24.0	1010
RS108y-2Y2YDB2Y-20C1.4-S(H95)-R5	20	1.3	1.2	27.0	1220
RS108y-2Y2YDB2Y-30C1.4-S(H95)-R5	30	1.3	1.2	30.0	1520
RS108y-2Y2YDB2Y-50C1.4-S(H95)-R5	50	1.3	1.3	35.0	2090
1.4mm Conductor, 2.7mm Insulated Wire rk 401 Series					
RS108y-2Y2YDB2Y-30C1.4-S(H95)-R4	30	1.3	1.2	32.0	2150
RS108y-2Y2YDB2Y-50C1.4-S(H95)-R4	50	1.3	1.3	38.0	2900
1.8mm Conductor, 3.4mm Insulated Wire rk 501 Series					
RS108y-2Y2YDB2Y-10C1.8-S(H95)-R5	10	1.3	1.2	25.0	1130
RS108y-2Y2YDB2Y-14C1.8-S(H95)-R5	14	1.3	1.2	27.0	1330
RS108y-2Y2YDB2Y-20C1.8-S(H95)-R5	20	1.3	1.2	30.0	1620
RS108y-2Y2YDB2Y-30C1.8-S(H95)-R5	30	1.3	1.3	34.0	2340
RS108y-2Y2YDB2Y-50C1.8-S(H95)-R5	50	1.3	1.3	42.0	3020
1.8mm Conductor, 3.4mm Insulated Wire rk 401 Series					
RS108y-2Y2YDB2Y-30C1.8-S(H95)-R4	30	1.3	1.3	37.0	2880
RS108y-2Y2YDB2Y-50C1.8-S(H95)-R4	50	1.3	1.3	44.0	3950

Anti Induction


UV Resistant


Water Resistant

Rated Voltage


Laid In Ducts


Buried in Ciround

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

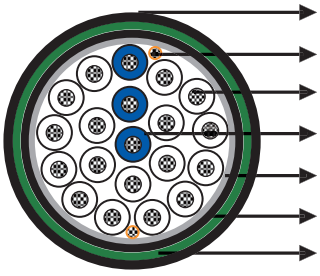
A-2Y2YB2Y S(H115)/S(H145)/S(H95)

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℃

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: 10×OD
- Temperature Range: -40℃ to +60℃ (during operation); -10℃ +60℃ (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

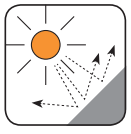
A–2Y2YB2Y n × 1 × 1.4/1.8 S(H145)

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 × 1 × 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

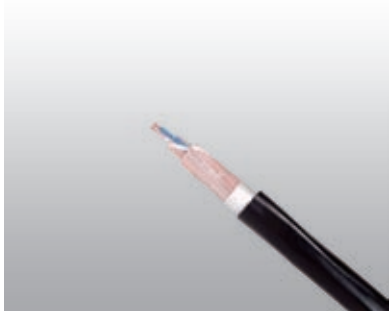
Rated Voltage


Laid In Ducts


Buried in Ciround

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

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

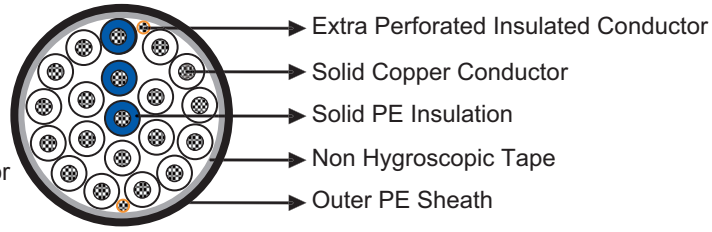


Applications

The cables are designed for general uses in protective devises 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℃

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℃ to +60℃ (during operation); -10℃ to +60℃ (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

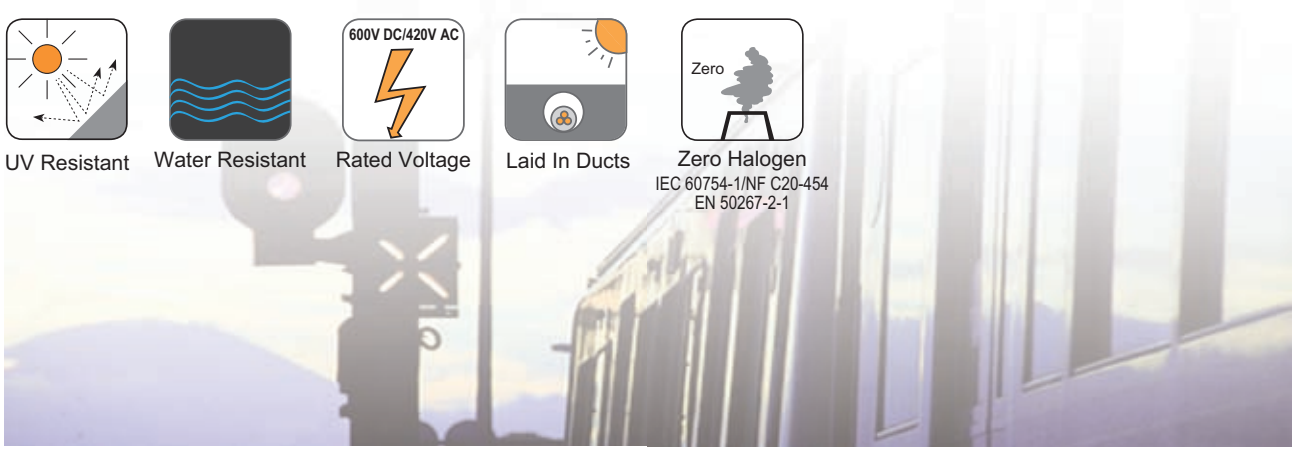
A–2Y2Yv n × 1 × 1.4/1.8 S(H145)

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 × 1 × 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

TYPE A1, A2 & A3 Railway Signalling Cable

Applications

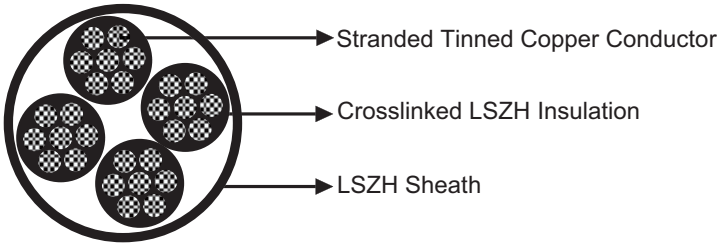
The cables are designed for railway signalling systems. The cables are suitable for use in d.c. circuits where the nominal voltage to earth does not exceed 1100 volts and are suitable for installation in ducts.

Standards

- NR/PS/SIG/00005(formerly RT/E/PS/00005)

Construction

- Conductors: Tinned stranded copper, class 2 according to IEC 60228 & BS 6360.
- Insulation: LSZH crosslinked.
- Core Wrapping: Plastic tape(s) with overlapping.
- Sheath: LSZH (for types A2 & A3 only).



Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	0.75	1.15
Maximum Conductor DC Resistance	Ω/km	24.8	17.3
Voltage Rating	KV	0.65/1.1	
Nominal Insulation Thickness	mm	0.85	0.85

Mechanical and Thermal Properties

- Minimum Bending Radius: 6×OD (static); 15×OD (dynamic)
- Temperature Range: -25℃ to +85℃ (during operation); -10℃ to +85℃ (during installation)

Dimensions and Weight

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	No. & Nominal Diameter of Strands No/mm	Nominal Sheath Thickness mm	Overall Diameter Min/Max mm	Nominal Weight kg/km
Type A1(without sheath)					
RS/A1-H-1G0.75(BL)	1x0.75(blue)	7/0.37	-	2.7/3.2	16
RS/A1-H-1G0.75(BR)	1x0.75(brown)	7/0.37	-	2.7/3.2	16
RS/A1-H-1G0.75(RD)	1x0.75(red)	7/0.37	-	2.7/3.2	16
RS/A1-H-1G0.75(OR)	1x0.75(orange)	7/0.37	-	2.7/3.2	16

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	No. & Nominal Diameter of Strands No/mm	Nominal Sheath Thickness mm	Overall Diameter Min/Max mm	Nominal Weight kg/km
RS/A1-H-1G0.75(GR)	1x0.75(green)	7/0.37	-	2.7/3.2	16
RS/A1-H-1G0.75(VI)	1x0.75(violet)	7/0.37	-	2.7/3.2	16
RS/A1-H-1G0.75	1x0.75(black)	7/0.37	-	2.7/3.2	16
RS/A1-H-1G1.15	1x1.15(black)	16/0.30	-	2.9/3.6	21
Type A2(with sheath)					
RS/A2-3GH-1G0.75	1x0.75	7/0.37	0.7	4.0/5.0	30
RS/A2-3GH-1G1.15	1x1.15	16/0.30	0.7	4.3/5.3	35
Type A3(with sheath)					
RS/A3-3GH-2G0.75	2x0.75	7/0.37	0.9	6.7/8.8	67
RS/A3-3GH-4G0.75	4x0.75	7/0.37	1.0	8.0/10.4	108
RS/A3-3GH-6G0.75	6x0.75	7/0.37	1.1	9.7/12.5	160
RS/A3-3GH-10G0.75	10x0.75	7/0.37	1.2	12.6/16.1	259
RS/A3-3GH-14G0.75	14x0.75	7/0.37	1.3	13.8/17.7	495
RS/A3-3GH-36G0.75	36x0.75	7/0.37	1.6	21.6/26.9	752
RS/A3-3GH-48G0.75	48x0.75	7/0.37	1.6	24.3/30.7	963


Impact Resistant


Highly Flexible


Oil Resistant

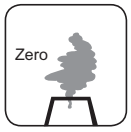
Weather Resistant

Rated Voltage


Laid In Ducts


Flame Retardant
NF C32-070-2.1(C2)
IEC 60332-1/EN 50265-2-1


Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN50266



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


Low Smoke Emission
IEC 61034/NFC20-902
EN 50268/NF C32-073

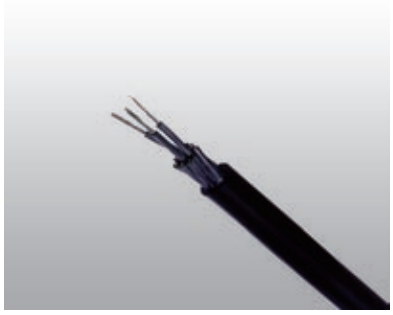

Low Corrosivity
EN 50267-2-2/NF C32-074
IEC 60754-2/NF C20-453


Low Toxicity

TYPE B1 & B2 Railway Signalling Cable

Applications

The cables are designed for railway signalling systems. The cables are suitable for use in d.c. circuits where the nominal voltage to earth does not exceed 1100 volts and installation in ducts.

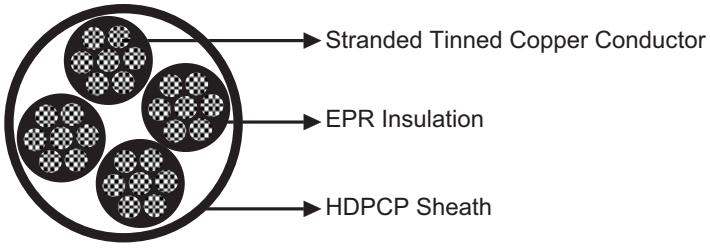


Standards

- NR/PS/SIG/00005(formerly RT/E/PS/00005)

Construction

- Conductors: Tinned stranded copper, class 2 according to IEC 60228 & BS 6360.
- Insulation: EPR Type GP4 to BS 7655.
- Core Wrapping: Plastic tape(s) with overlapping.
- Sheath: HDPCP Type RS2 to BS 7655.



Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	0.75	1.5	2.5	10.0	16.0	35.0	70.0	95.0
Maximum DC Conductor Resistance	Ω/km	24.8	12.2	7.56	1.84	1.16	0.529	0.27	0.195
Voltage Rating	KV	0.65/1.1							
Nominal Insulation Thickness	mm	0.85	0.8	0.8	1.0	1.0	1.2	1.4	1.6

Mechanical and Thermal Properties

- Minimum Bending Radius: 6×OD (static); 15×OD (dynamic)
- Temperature Range: -25℃ to +85℃ (during operation); -10℃ to +85℃ (during installation)

Dimensions and Weight

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No. ×mm²	No. & Nominal Diameter of Strands No/mm	Nominal Sheath Thickness mm	Overall Diameter Min/Max mm	Nominal Weight kg/km
Type B1					
RS/B1-3G5G-1G0.75	1×0.75	7/0.37	2.0	6.5/8.1	28
RS/B1-3G5G-1G1.5	1×1.5	7/0.53	2.0	6.8/8.5	31
RS/B1-3G5G-1G2.5	1×2.5	7/0.67	2.0	7.2/8.9	34

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No. ×mm²	No. & Nominal Diameter of Strands No/mm	Nominal Sheath Thickness mm	Overall Diameter Min/Max mm	Nominal Weight kg/km
RS/B1-3G5G-1G10	1×10.0	7/1.35	2.0	9.4/11.8	205
RS/B1-3G5G-1G35	1×35.0	19/1.53	2.0	12.9/16.1	495
		Type B2			
RS/B2-3G5G-2G1.5	2×1.5	7/0.53	2.0	9.4/12.1	135
RS/B2-3G5G-2G2.5	2×2.5	7/0.67	2.0	10.5/13.1	170
RS/B2-3G5G-2G10	2×10.0	7/1.35	2.0	15.0/18.7	443
RS/B2-3G5G-2G16	2×16.0	7/1.70	2.0	16.7/20.9	625
RS/B2-3G5G-2G35	2×35.0	19/1.53	2.2	22.3/27.8	1232
RS/B2-3G5G-2G70	2×70.0	19/2.14	2.4	28.8/36.0	2053
RS/B2-3G5G-2G95	2×95.0	19/2.52	2.6	33.2/41.5	2968
RS/B2-3G5G-4G0.75	4×0.75	7/0.37	2.0	10.2/12.8	140
RS/B2-3G5G-7G0.75	7×0.75	7/0.37	2.0	11.8/14.7	214
RS/B2-3G5G-10G0.75	10×0.75	7/0.37	2.0	14.4/18.0	280
RS/B2-3G5G-12G0.75	12×0.75	7/0.37	2.0	14.8/18.5	321
RS/B2-3G5G-19G0.75	19×0.75	7/0.37	2.0	17.0/21.3	451
RS/B2-3G5G-27G0.75	27×0.75	7/0.37	2.0	20.1/25.1	602
RS/B2-3G5G-37G0.75	37×0.75	7/0.37	2.2	22.7/28.4	799
RS/B2-3G5G-48G0.75	48×0.75	7/0.37	2.2	25.7/32.2	973
RS/B2-3G5G-4G1.5	4×1.5	7/0.53	2.0	10.9/13.7	217
RS/B2-3G5G-7G1.5	7×1.5	7/0.53	2.0	12.6/15.8	296
RS/B2-3G5G-10G1.5	10×1.5	7/0.53	2.0	15.6/19.4	401
RS/B2-3G5G-12G1.5	12×1.5	7/0.53	2.0	16.0/20.0	437
RS/B2-3G5G-19G1.5	19×1.5	7/0.53	2.0	18.5/23.1	615
RS/B2-3G5G-27G1.5	27×1.5	7/0.53	2.2	22.2/27.8	856
RS/B2-3G5G-37G1.5	37×1.5	7/0.53	2.2	25.1/31.4	1126
RS/B2-3G5G-48G1.5	48×1.5	7/0.53	2.4	28.1/35.1	1494
RS/B2-3G5G-4G2.5	4×2.5	7/0.67	2.0	11.9/14.8	260
RS/B2-3G5G-7G2.5	7×2.5	7/0.67	2.0	13.8/17.2	370
RS/B2-3G5G-10G2.5	10×2.5	7/0.67	2.0	17.1/21.3	520
RS/B2-3G5G-12G2.5	12×2.5	7/0.67	2.0	17.6/22.0	599
RS/B2-3G5G-19G2.5	19×2.5	7/0.67	2.0	20.4/25.5	835
RS/B2-3G5G-27G2.5	27×2.5	7/0.67	2.2	24.6/30.7	1232
RS/B2-3G5G-37G2.5	37×2.5	7/0.67	2.4	27.8/34.7	1623
RS/B2-3G5G-48G2.5	48×2.5	7/0.67	2.6	31.2/39.0	2032
RS/B2-3G5G-6P0.75S	6×2×0.75	7/0.37	2.0	19.7/24.6	372


Impact Resistant


Highly Flexible


Oil Resistant


Weather Resistant

Rated Voltage


Laid In Ducts

TYPE C1 & C2 Railway Signalling Cable

Applications

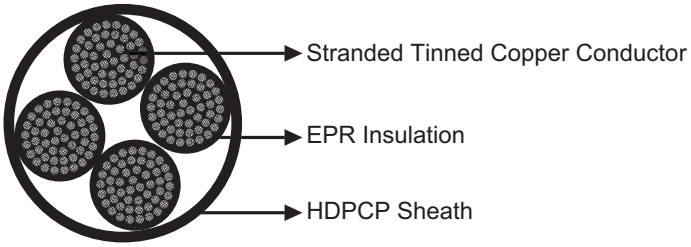
The cables are designed for railway signalling systems. The cables are suitable for use in d.c. circuits where the nominal voltage to earth does not exceed 1100 volts and installation in ducts.

Standard

- NR/PS/SIG/00005(formerly RT/E/PS/00005)

Construction

- Conductors: Tinned stranded copper, class 5 according to IEC 60228 & BS 6360.
- Insulation: EPR Type GP4 to BS 7655.
- Core Wrapping: Plastic tape(s) with overlapping.
- Sheath: HDPCP Type RS2 to BS 7655.



Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	2.5
Maximum DC Conductor Resistance	Ω/km	8.21
Voltage Rating	KV	0.65/1.1
Nominal Insulation Thickness	mm	1.05

Mechanical and Thermal Properties

- Minimum Bending Radius: 6×OD (static); 15×OD (dynamic)
- Temperature Range: -25℃ to +85℃ (during operation);
  -10℃ to +85℃ (during installation)


Impact Resistant


Highly Flexible


Oil Resistant


Weather Resistant

Rated Voltage


Laid In Ducts

Dimensions and Weight

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	No. & Nominal Diameter of Strands No/mm	Nominal Sheath Thickness mm	Overall Diameter Min/Max mm	Nominal Weight kg/km
Type C1					
RS/C1-3G5G-1G2.5	1×2.5	50/0.25	3.8	11.2/14.0	195
Type C2					
RS/C2-3G5G-2G2.5	2×2.5	50/0.25	3.8	14.9/18.8	370
RS/C2-3G5G-4G2.5	4×2.5	50/0.25	3.8	16.4/20.9	460
RS/C2-3G5G-7G2.5	7×2.5	50/0.25	3.8	18.7/23.7	610
RS/C2-3G5G-10G2.5	10×2.5	50/0.25	3.8	22.5/28.6	920
RS/C2-3G5G-12G2.5	12×2.5	50/0.25	3.8	23.2/29.3	950
RS/C2-3G5G-16G2.5	16×2.5	50/0.25	3.8	25.3/32.0	1180

Routine test voltage: 2.5kV for 5 minute

TYPE C3 Railway Signalling Cable

Applications

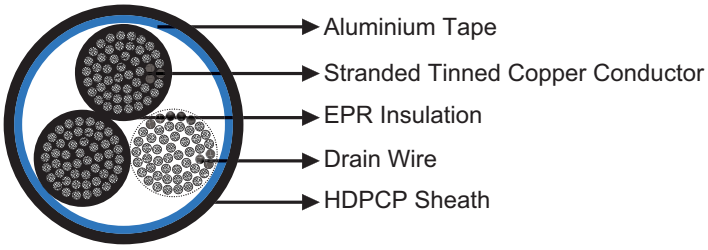
The cables are designed for railway signalling systems. The cables are suitable for use in d.c. circuits where the nominal voltage to earth does not exceed 1100 volts and installation in ducts.

Standard

- NR/PS/SIG/00005(formerly RT/E/PS/00005)

Construction

- Conductors: Tinned stranded copper, class 5 according to IEC 60228 & BS 6360.
- Insulation: EPR Type GP4 to BS 7655.
- Screen: Aluminium tape.
- Drain Wire: 2.5 mm² flexible tinned copper.
- Sheath: HDPCP Type RS2 to BS 7655.

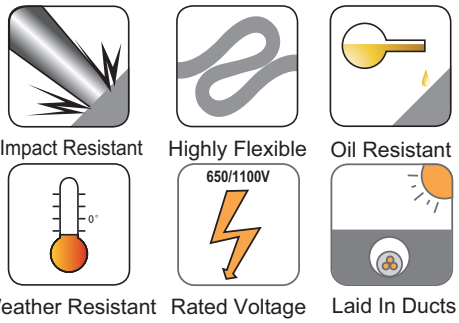


Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	2.5
Maximum DC Conductor Resistance	Ω/km	8.21
Minimum Noise Reduction	dB	60
Voltage Rating	KV	0.65/1.1
Nominal Insulation Thickness	mm	1.05

Mechanical and Thermal Properties

- Minimum Bending Radius: 6×OD (static); 15×OD (dynamic)
- Temperature Range: -25℃ to +85℃ (during operation);
  -10℃ to +85℃ (during installation)



Impact Resistant | Highly Flexible | Oil Resistant
Weather Resistant | Rated Voltage | Laid In Ducts

Dimensions and Weight

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	No. & Nominal Diameter of Strands No/mm	Nominal Sheath Thickness mm	Overall Diameter Min/Max mm	Nominal Weight kg/km
Type C3					
RS/C3-3G(St)5G-1P2.5S	1×2×2.5	50/0.25	3.8	15.0/20.0	390

Routine test voltage: 2.5kV for 5 minutes

TYPE D1 & D2 Railway Signalling Cable

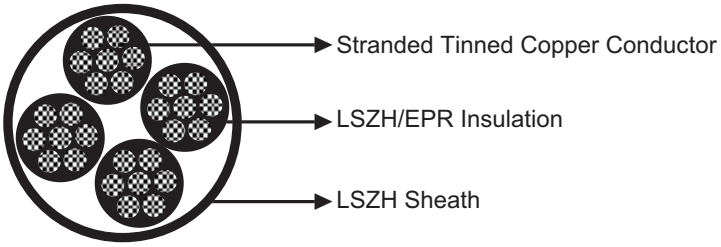
Applications

The cables are designed for railway signalling systems. The cables are suitable for use in d.c. circuits where the nominal voltage to earth does not exceed 1100 volts and installation in ducts.

Standards

- NR/PS/SIG/00005(formerly RT/E/PS/00005)

Construction



- Conductors: Tinned stranded copper, according to IEC 60228 class 2& BS 6360.
- Insulation: LSZH or EPR Type GP4 to BS 7655.
- Core Wrapping: Plastic tape(s) with overlapping.
- Sheath: LSZH.

Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	0.75	1.5	2.5	10.0	16.0	35.0	70.0	95.0
Maximum DC Conductor Resistance	Ω/km	24.8	12.2	7.56	1.84	1.16	0.529	0.27	0.195
Voltage Rating	KV	0.65/1.1							
Nominal Insulation Thickness	mm	0.85	0.8	0.8	1.0	1.0	1.2	1.4	1.6

Mechanical and Thermal Properties

- Minimum Bending Radius: 6×OD (static); 15×OD (dynamic)
- Temperature Range: -25℃ to +85℃ (during operation); -10℃ to +85℃ (during installation)

Dimensions and Weight

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	No. & Nominal Diameter of Strands No/mm	Nominal Sheath Thickness mm	Overall Diameter Min/Max mm	Nominal Weight kg/km
Type D1					
RS/D1-3GH-1G0.75	1×0.75	7/0.37	2.0	6.5/8.1	25
RS/D1-3GH-1G1.5	1×1.5	7/0.53	2.0	6.8/8.5	30
RS/D1-3GH-1G2.5	1×2.5	7/0.67	2.0	7.2/8.9	34
RS/D1-3GH-1G10	1×10.0	7/1.35	2.0	9.4/11.8	205
RS/D1-3GH-1G35	1×35.0	19/1.53	2.0	12.9/16.1	495

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	No. & Nominal Diameter of Strands No/mm	Nominal Sheath Thickness mm	Overall Diameter Min/Max mm	Nominal Weight kg/km
Type D2					
RS/D2-3GH-2G1.5	2×1.5	7/0.53	2.0	9.4/12.1	140
RS/D2-3GH-2G2.5	2×2.5	7/0.67	2.0	10.5/13.1	170
RS/D2-3GH-2G10	2×10.0	7/1.35	2.0	15.0/18.7	383
RS/D2-3GH-2G16	2×16.0	7/1.70	2.0	16.7/20.9	625
RS/D2-3GH-2G35	2×35.0	19/1.53	2.2	22.3/27.8	994
RS/D2-3GH-2G70	2×70.0	19/2.14	2.4	28.8/36.0	2121
RS/D2-3GH-2G95	2×95.0	19/2.52	2.6	33.2/41.5	2760
RS/D2-3GH-4G0.75	4×0.75	7/0.37	2.0	10.2/12.8	150
RS/D2-3GH-7G0.75	7×0.75	7/0.37	2.0	11.8/14.7	225
RS/D2-3GH-10G0.75	10×0.75	7/0.37	2.0	14.4/18.0	280
RS/D2-3GH-12G0.75	12×0.75	7/0.37	2.0	14.8/18.5	321
RS/D2-3GH-19G0.75	19×0.75	7/0.37	2.0	17.0/21.3	425
RS/D2-3GH-27G0.75	27×0.75	7/0.37	2.0	20.1/25.1	606
RS/D2-3GH-37G0.75	37×0.75	7/0.37	2.2	22.7/28.4	786
RS/D2-3GH-48G0.75	48×0.75	7/0.37	2.2	25.7/32.2	972
RS/D2-3GH-4G1.5	4×1.5	7/0.53	2.0	10.9/13.7	250
RS/D2-3GH-7G1.5	7×1.5	7/0.53	2.0	12.6/15.8	370
RS/D2-3GH-10G1.5	10×1.5	7/0.53	2.0	15.6/19.4	410
RS/D2-3GH-12G1.5	12×1.5	7/0.53	2.0	16.0/20.0	410
RS/D2-3GH-19G1.5	19×1.5	7/0.53	2.0	18.5/23.1	615
RS/D2-3GH-27G1.5	27×1.5	7/0.53	2.2	22.2/27.8	897
RS/D2-3GH-37G1.5	37×1.5	7/0.53	2.2	25.1/31.4	1126
RS/D2-3GH-48G1.5	48×1.5	7/0.53	2.4	28.1/35.1	1280
RS/D2-3GH-4G2.5	4×2.5	7/0.67	2.0	11.9/14.8	340
RS/D2-3GH-7G2.5	7×2.5	7/0.67	2.0	13.8/17.2	500
RS/D2-3GH-10G2.5	10×2.5	7/0.67	2.0	17.1/21.3	680
RS/D2-3GH-12G2.5	12×2.5	7/0.67	2.0	17.6/22.0	613
RS/D2-3GH-19G2.5	19×2.5	7/0.67	2.0	20.4/25.5	815
RS/D2-3GH-27G2.5	27×2.5	7/0.67	2.2	24.6/30.7	1200
RS/D2-3GH-37G2.5	37×2.5	7/0.67	2.4	27.8/34.7	1600
RS/D2-3GH-48G2.5	48×2.5	7/0.67	2.6	31.2/39.0	1960


Impact Resistant


Highly Flexible


Oil Resistant

Weather Resistant

Rated Voltage


Laid In Ducts


Flame Retardant
NF C32-070-2.1(C2)
IEC 60332-1/EN 50265-2-1


Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN50266

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


Low Smoke Emission
IEC 61034/NFC20-902
EN 50268/NF C32-073


Low Corrosivity
EN 50267-2-2/NF C32-074
IEC 60754-2/NF C20-453


Low Toxicity

TYPE E1 & E2 Railway Signalling Cable

Applications

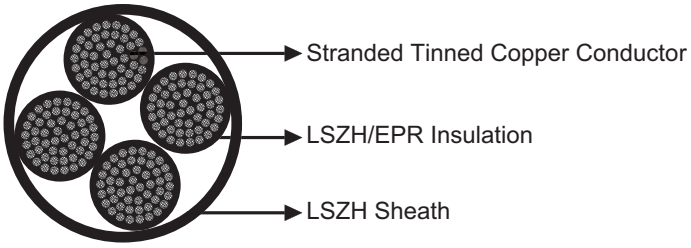
The cables are designed for railway signalling systems. The cables are suitable for use in d.c. circuits where the nominal voltage to earth does not exceed 1100 volts and installation in ducts.

Standards

- NR/PS/SIG/00005(formerly RT/E/PS/00005)

Construction

- Conductors: Tinned stranded copper, class 5 according to IEC 60228 & BS 6360.
- Insulation: LSZH or EPR Type GP4 to BS 7655.
- Outer Sheath: LSZH.



Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	2.5
Maximum DC Conductor Resistance	Ω/km	8.21
Voltage Rating	KV	0.65/1.1
Nominal Insulation Thickness	mm	1.05

Mechanical and Thermal Properties

- Minimum Bending Radius: 6×OD (static); 15×OD (dynamic)
- Temperature Range: -25℃ to +85℃ (during operation); -10℃ to +85℃ (during installation)

Dimensions and Weight

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	No. & Nominal Diameter of Strands No/mm	Nominal Sheath Thickness mm	Overall Diameter Min/Max mm	Nominal Weight kg/km
		Type E1			
RS/E1-3GH-1G2.5	1×2.5	50/0.25	3.8	11.2/14.0	200
		Type E2			
RS/E2-3GH-2G2.5	2×2.5	50/0.25	3.8	14.9/18.8	380
RS/E2-3GH-4G2.5	4×2.5	50/0.25	3.8	16.4/20.9	470
RS/E2-3GH-7G2.5	7×2.5	50/0.25	3.8	18.7/23.7	625
RS/E2-3GH-10G2.5	10×2.5	50/0.25	3.8	22.5/28.6	940

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	No. & Nominal Diameter of Strands No/mm	Nominal Sheath Thickness mm	Overall Diameter Min/Max mm	Nominal Weight kg/km
RS/E2-3GH-12G2.5	12×2.5	50/0.25	3.8	23.2/29.3	980
RS/E2-3GH-16G2.5	16×2.5	50/0.25	3.8	25.3/32.0	1200
RS/E2-3GH-1P2.5S	1×2×2.5	50/0.25	3.8	15.0/20.0	341

Routine test voltage: 2.5kV for 5 minutes


Impact Resistant


Highly Flexible


Oil Resistant

Weather Resistant

Rated Voltage


Laid In Ducts


Flame Retardant
NF C32-070-2.1(C2)
IEC 60332-1/EN 50265-2-1


Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN50266

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


Low Smoke Emission
IEC 61034/NFC20-902
EN 50268/NF C32-073


Low Corrosivity
EN 50267-2-2/NF C32-074
IEC 60754-2/NF C20-453


Low Toxicity

TYPE E3 Railway Signalling Cable

Applications

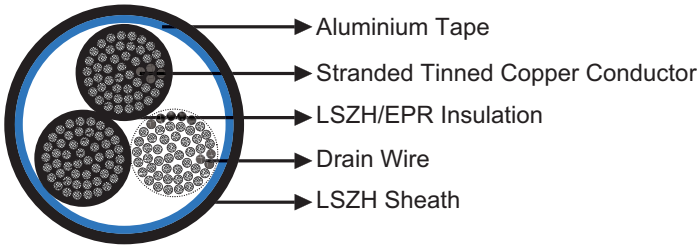
The cables are designed for railway signalling systems. The cables are suitable for use in d.c. circuits where the nominal voltage to earth does not exceed 1100 volts and installation in ducts.

Standards

- NR/PS/SIG/00005(formerly RT/E/PS/00005)

Construction

- Conductor: Tinned stranded copper, according to IEC 60228 class 5& BS 6360.
- Insulation: LSZH or EPR Type GP4 to BS 7655.
- Screen: Aluminium tape.
- Drain Wire: 2.5 mm² flexible tinned copper.
- Sheath: LSZH.

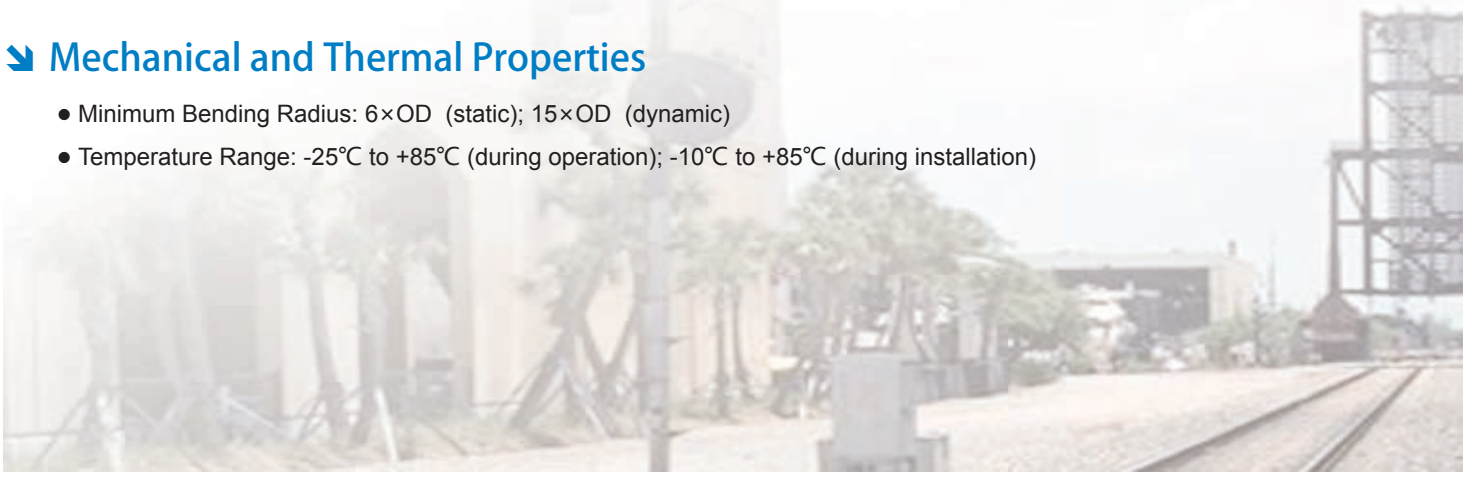


Electrical Characteristics at 20℃

Nominal Conductor Cross Section	mm²	2.5
Maximum DC Conductor Resistance	Ω/km	8.21
Minimum Noise Reduction	dB	60
Voltage Rating	KV	0.65/1.1
Nominal Insulation Thickness	mm	1.05

Mechanical and Thermal Properties

- Minimum Bending Radius: 6×OD (static); 15×OD (dynamic)
- Temperature Range: -25℃ to +85℃ (during operation); -10℃ to +85℃ (during installation)



Dimensions and Weight

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No.×mm²	No. & Nominal Diameter of Strands No/mm	Nominal Sheath Thickness mm	Overall Diameter Min/Max mm	Nominal Weight kg/km
Type E3					
RS/E3-3G(St)H-1P2.5S	1 x 2 x 2.5	50/0.25	3.8	15.0/20.0	410

Routine test voltage: 2.5kV for 5 minutes


Impact Resistant


Highly Flexible


Oil Resistant

Weather Resistant

Rated Voltage


Laid In Ducts


Flame Retardant
NF C32-070-2.1(C2)
IEC 60332-1/EN 50265-2-1


Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN50266

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


Low Smoke Emission
IEC 61034/NFC20-902
EN 50268/NF C32-073

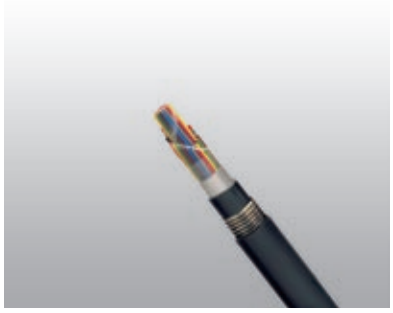

Low Corrosivity
EN 50267-2-2/NF C32-074
IEC 60754-2/NF C20-453


Low Toxicity

EAPSP n×1×1.4

Applications

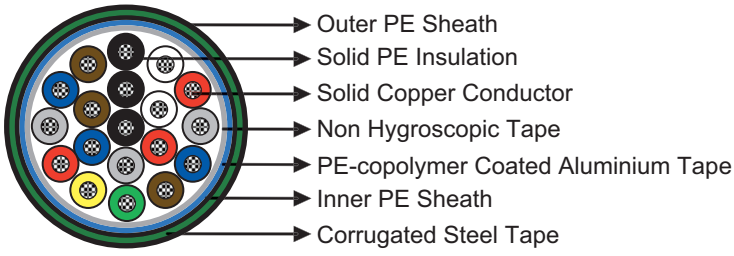
The cables are used as railway cables and can be installed directly into the ground or in ducts.



Standards

- RENFE E.T. 03.365.051.6

Construction



- Conductors: Soft annealed solid copper, 1.4 mm nominal diameter.
- Insulation: PE insulation.
- Stranding: Cores are helically stranded in concentric layers.
- Core Wrapping: Plastic tape(s) with overlapping.
- Moisture Barrier: One laminated sheath made of aluminium tape (0.2mm thick) coated with copolymer on at least one side is applied longitudinally with overlap.
- Inner Sheath: PE sheath.
- Armour: One corrugated steel tape is longitudinally applied with overlap.
- Outer Sheath: PE sheath.

Electrical Characteristics at 20℃

Nominal Conductor Diameter	mm	1.4
Maximum Conductor Resistance	Ω/km	11.7
Minimum Insulation Resistance @500 V DC	MΩ.km	25000
Resistance Unbalance	%	2
Test Voltage @50Hz 1min		
Core to Core	V_{eff}	2100
Core to Screen	V_{eff}	2500
Core to Armouring	V_{eff}	2000

Mechanical and Thermal Properties

- Minimum Bending Radius: 10×OD
- Temperature Range: -30℃ to +70℃ (during operation); -10℃ +50℃ (during installation)

Dimensions and Weight

Cable Code	Number of Cores	Nominal Sheath Thickness mm		Maximum Overall Diameter mm	Nominal Weight kg/km
		Inner	Outer		
1.4mm Conductor, 2.6mm Insulated Wire					
RS/EAPSP-2Y(L)2Y(SR)2Y-4C1.4	4	1.3	1.4	15.7	270
RS/EAPSP-2Y(L)2Y(SR)2Y-7C1.4	7	1.3	1.4	17.1	350
RS/EAPSP-2Y(L)2Y(SR)2Y-9C1.4	9	1.3	1.4	19.9	420
RS/EAPSP-2Y(L)2Y(SR)2Y-12C1.4	12	1.3	1.4	20.0	480
RS/EAPSP-2Y(L)2Y(SR)2Y-19C1.4	19	1.3	1.4	22.0	630
RS/EAPSP-2Y(L)2Y(SR)2Y-27C1.4	27	1.3	1.4	24.8	810
RS/EAPSP-2Y(L)2Y(SR)2Y-37C1.4	37	1.3	1.4	26.9	1010
RS/EAPSP-2Y(L)2Y(SR)2Y-48C1.4	48	1.3	1.4	29.7	1240
RS/EAPSP-2Y(L)2Y(SR)2Y-61C1.4	61	1.3	1.4	31.8	1490


UV Resistant


Water Resistant

Rated Voltage


Buried in Ciround


Laid In Ducts

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

CCPSSP-FR0.3 n×1×1.4

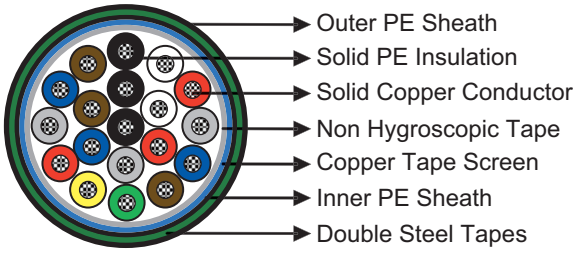
Applications

The cables are used as railway cables and can be installed directly into the ground or in ducts.

Standards

- RENFE E.T. 03.365.051.6

Construction



- Conductors: Soft annealed solid copper, 1.4 mm nominal diameter.
- Insulation: PE insulation.
- Stranding: Cores are helically stranded in concentric layers.
- Core Wrapping: Two or more layers of plastic tape(s) with overlapping.
- Screen: Copper tapes with overlap (protection against interference).
- Inner Sheath: PE sheath.
- Armour: Two layers of steel tape (0.8mm thick).
- Outer Sheath: PE sheath.

Electrical Characteristics at 20℃

Nominal Conductor Diameter	mm	1.4
Maximum Conductor Resistance	Ω/km	11.9
Minimum Insulation Resistance @500 V DC	MΩ.km	15000
Resistance Unbalance	%	2
Test Voltage @50Hz 1min		
Core to Core	V_{eff}	2100
Core to Screen	V_{eff}	2500
Reduction Factor @100V/km 50Hz		0.3

Mechanical and Thermal Properties

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

↘ Dimensions and Weight

Cable Code	Number of Cores	Nominal Sheath Thickness mm		Maximum Overall Diameter mm	Nominal Weight kg/km
		Inner	Outer		
1.4mm Conductor, 2.6mm Insulated Wire					
RS/CCPSSP-FR0.3-2Y(K)2YB2Y-2C1.4	2	1.5	1.6	16.5	530
RS/CCPSSP-FR0.3-2Y(K)2YB2Y-4C1.4	4	1.5	1.6	17.5	608
RS/CCPSSP-FR0.3-2Y(K)2YB2Y-7C1.4	7	1.5	1.6	19.0	718
RS/CCPSSP-FR0.3-2Y(K)2YB2Y-9C1.4	9	1.5	1.6	22.7	914
RS/CCPSSP-FR0.3-2Y(K)2YB2Y-12C1.4	12	1.5	1.6	23.2	977
RS/CCPSSP-FR0.3-2Y(K)2YB2Y-19C1.4	19	1.6	1.8	25.2	1185
RS/CCPSSP-FR0.3-2Y(K)2YB2Y-27C1.4	27	1.6	1.8	28.1	1437
RS/CCPSSP-FR0.3-2Y(K)2YB2Y-37C1.4	37	1.7	1.8	31.4	1754
RS/CCPSSP-FR0.3-2Y(K)2YB2Y-48C1.4	48	1.7	1.8	34.2	2062


UV Resistant


Water Resistant

Rated Voltage


Buried in Ciround


Laid In Ducts

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

Anti Induction

CCTSST-FR0.3 n×1×1.4

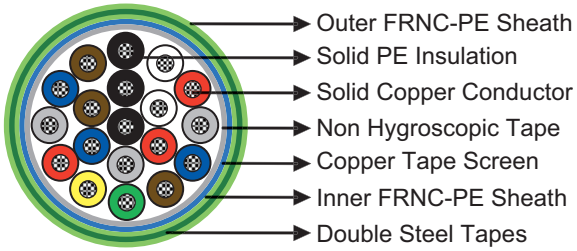
Applications

The cables are used as railway cables and can be installed directly into the ground or in ducts.

Standards

- RENFE E.T. 03.365.051.6

Construction



- Conductors: Soft annealed solid copper, 1.4 mm nominal diameter.
- Insulation: PE insulation.
- Stranding: Cores are helically stranded in concentric layers.
- Core Wrapping: Two or more layers of plastic tape(s) with overlapping.
- Screen: Copper tapes with overlap (protection against interference).
- Inner Sheath: FRNC-PE sheath, coloured green.
- Armour: Two layers of steel tape (0.8mm thick).
- Outer Sheath: FRNC-PE sheath, coloured green.

*FRNC: Flame retardant, non corrosive.

Electrical Characteristics at 20℃

Nominal Conductor Diameter	mm	1.4
Maximum Conductor Resistance	Ω/km	11.7
Minimum Insulation Resistance @500 V DC	MΩ.km	35000
Resistance Unbalance	%	2
Test Voltage @50Hz 1min		
Core to Core	V_{eff}	2100
Core to Screen	V_{eff}	2500
Reduction Factor @100V/km 50Hz		0.3

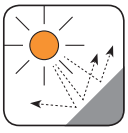
Mechanical and Thermal Properties

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

Dimensions and Weight

Cable Code	Number of Cores	Nominal Sheath Thickness mm		Maximum Overall Diameter mm	Nominal Weight kg/km
		Inner	Outer		
1.4mm Conductor, 2.6mm Insulated Wire					
RS/CCTSST-FR0.3-2Y(K)HBH-4C1.4	4	1.5	1.6	18.0	705
RS/CCTSST-FR0.3-2Y(K)HBH-19C1.4	19	1.6	1.8	26.1	1362
RS/CCTSST-FR0.3-2Y(K)HBH-27C1.4	27	1.6	1.8	29.2	1648
RS/CCTSST-FR0.3-2Y(K)HBH-48C1.4	48	1.7	1.8	36.7	2348

Anti Induction


UV Resistant


Water Resistant

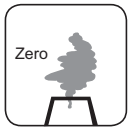
Rated Voltage


Buried in Ciround


Laid In Ducts


Flame Retardant
NF C32-070-2.1(C2)
IEC 60332-1/EN 50265-2-1


Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN50266



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


Low Smoke Emission
IEC 61034/NFC20-902
EN 50268/NF C32-073


Low Corrosivity
EN 50267-2-2/NF C32-074
IEC 60754-2/NF C20-453


Low Toxicity