

Concentric Signalling Cables Type 1 to SE1047

Applications

The mission critical signalling cables are used between central signalling terminations frame and vital signalling equipments.

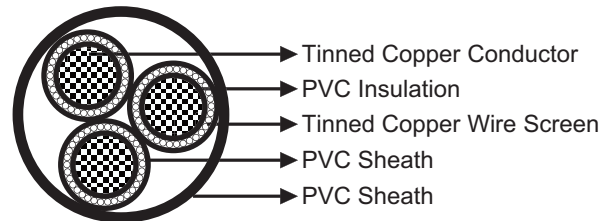


Standards

- SE1047
- UNE 21031

Construction

- Conductors: Stranded tinned copper conductors.
- Insulation: PVC.
- Screen: TCW (Tinned Copper Wire) screen.
- Inner Sheath: PVC.
- Outer Sheath: PVC.



Optional

Limited fire hazard concentric signalling cables: Stranded tinned copper conductors, XLPE insulation, TCW screen, PE sheath, units laid up, LFH sheath. (SE 1047 Type 2)

Concentric signalling screened cables: Stranded tinned copper conductors, PVC insulation, TCW spiral screen, PVC sheath, TCWB, units laid up, PVC sheath. (SE 1047 Type 3)

Limited fire hazard concentric signalling screened cables: Stranded tinned copper conductors, XLPE insulation, TCW spiral screen, PE sheath, TCWB, units laid up, LFH sheath. (SE 1047 Type 4)

Electrical Characteristics at 20°C

Nominal Conductor Cross Section	mm ²	1.85
Maximum DC Conductor Resistance	Ω/km	11
Maximum DC Screen Resistance	Ω/km	9.66

Mechanical and Thermal Properties

- Minimum Bending Radius: 7.5×OD
- Temperature Range: -25°C to +85°C (during operation); -10°C to +70°C (during installation)



Dimensions and Weight

SE 1047 Type 1 Concentric Signalling PVC Sheathed Cables

Cable Code	No. of units & Nominal Conductor Cross Sectional Area No. × mm ²	No. & Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
RF1047-VC4VV-450/750V-1G1.85	1×1.85	1/1.53	0.7	10.9	173
RF1047-VC4VV-450/750V-3G1.85	3×1.85	1/1.53	0.7	18.4	453
RF1047-VC4VV-450/750V-7G1.85	7×1.85	1/1.53	0.7	23.9	771
RF1047-VC4VV-450/750V-19G1.85	19×1.85	1/1.53	0.7	36.8	1815

SE 1047 Type 2 Concentric Signalling LFH Sheathed Cables

Cable Code	No. of units & Nominal Conductor Cross Sectional Area No. × mm ²	No. & Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
RF1047-RC4Z1Z1-450/750V-1G1.85	1×1.85	1/1.53	0.7	10.3	140
RF1047-RC4Z1Z1-450/750V-3G1.85	3×1.85	1/1.53	0.7	17.1	361
RF1047-RC4Z1Z1-450/750V-7G1.85	7×1.85	1/1.53	0.7	22.1	612
RF1047-RC4Z1Z1-450/750V-19G1.85	19×1.85	1/1.53	0.7	33.8	1429

SE 1047 Type 3 Concentric Signalling Screened PVC Sheathed Cables

Cable Code	No. of units & Nominal Conductor Cross Sectional Area No. × mm ²	No. & Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
RF1047-VC4VC4V-450/750V-1G1.85	1×1.85	1/1.53	0.8	11.6	210
RF1047-VC4VC4V-450/750V-3G1.85	3×1.85	1/1.53	0.8	19.9	561
RF1047-VC4VC4V-450/750V-7G1.85	7×1.85	1/1.53	0.8	25.9	987
RF1047-VC4VC4V-450/750V-19G1.85	19×1.85	1/1.53	0.8	40.2	2375

SE 1047 Type 4 Concentric Signalling Screened LFH Sheathed Cables

Cable Code	No. of units & Nominal Conductor Cross Sectional Area No. × mm ²	No. & Nominal Diameter of Strands No/mm	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
RF1047-RC4Z1C4Z1-450/750V-1G1.85	1×1.85	1/1.53	0.8	11.0	184
RF1047-RC4Z1C4Z1-450/750V-3G1.85	3×1.85	1/1.53	0.8	18.6	487
RF1047-RC4Z1C4Z1-450/750V-7G1.85	7×1.85	1/1.53	0.8	24.1	875
RF1047-RC4Z1C4Z1-450/750V-19G1.85	19×1.85	1/1.53	0.8	37.2	2120

PVC Sheath



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

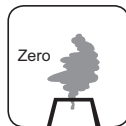
LSZH Sheath



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