

## CV /CVZ Indoor Equipment Cables

### Applications

The cables are used as cabling wires for the relays and electronic equipments in the Traffic Control Center and Trackside Equipment Shelter. The CV cables are suitable for use only in Optical Control Panel (OCP) wiring.



### Standards

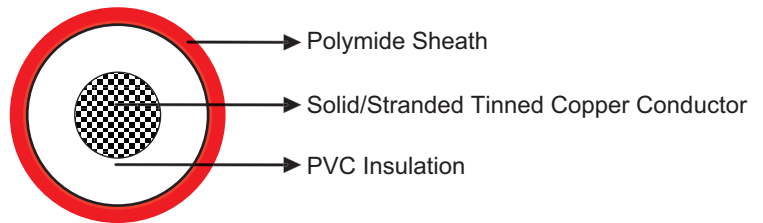
- SNCF CT 500

### Construction

- Conductors: Class 5 stranded tinned copper (for flexible wires CV-S & CVZ-S type), class 1 solid tinned copper (for stiff wires CV & CVZ), 0.5/1.0/2.5/6.0 mm<sup>2</sup> cross section.

- Insulation: White (for CVZ type)/coloured (for CV type) unleaded PVC.

- Sheath: Coloured polyamide outer sheath (for CVZ & CVZ-S type).



### Electrical Characteristics at 20°C

#### CV/CVZ

Nominal Conductor Diameter	mm	0.8	1.17	1.78
Nominal Cross Section Area	mm <sup>2</sup>	0.5	1.0	2.5
Maximum Conductor Resistance (DC)	Ω/km	36.1	17.9	7.56
Operating Voltage	V	750		

#### CV-S/CVZ-S

No of Strands/ Strand Diameter	No/mm	16/0.2	32/0.2	50/0.25	84/0.3
Nominal Cross Section Area	mm <sup>2</sup>	0.5	1.0	2.5	6
Maximum Conductor Resistance (DC)	Ω/km	40.1	20.0	8.21	3.39
Operating Voltage	V	750			

### Mechanical and Thermal Properties

- Minimum Bending Radius (static): 4×OD (for flexible wire); 5×OD (for stiff wire)
- Minimum Bending Radius (dynamic): 8×OD (for flexible wire); 10×OD (for stiff wire)
- Operating Temperature: -15°C to +70°C



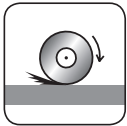
## ➤ Dimensions and Weight

### CV/CVZ Cables

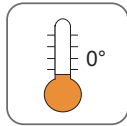
Cable Code	Number of Conductors	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
0.8mm Conductor, 1.6mm Insulated Wire				
RS/CV-075-Y-1G0.5	1	-	-	6
1.17mm Conductor, 1.9mm Insulated Wire				
RS/CVZ-075-Y(4Y)-1G1	1	0.2	2.3	13.2
1.78mm Conductor, 2.7mm Insulated Wire				
RS/CVZ-075-Y(4Y)- 1G2.5	1	0.2	3.1	29.3

### CV-S/CVZ-S Cables

Cable Code	Number of Conductors	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
16/0.2mm Conductor, 1.6mm Insulated Wire				
RS/CV-S-075-Y-1G0.5	1	-	-	6.8
RS/CVZ-S-075-Y(4Y)-1G0.5	1	0.35	2.3	7.6
32/0.2mm Conductor, 2.1mm Insulated Wire				
RS/CVZ-S-075-Y(4Y)-1G1	1	0.2	2.5	13.5
RS/CVZ-S-075-Y(4Y)-1P1S	1P	0.2	2.5	28.2
50/0.25mm Conductor, 3.0mm Insulated Wire				
RS/CVZ-S-075-Y(4Y)- 1G2.5	1	0.2	3.4	29.3
84/0.3mm Conductor, 4.2mm Insulated Wire				
RS/CVZ-S-075- Y(4Y)-1G6	1	0.2	4.6	60.1



Abrasion Retardant



Resistant to High Temperature



Weather Resistant



Mineral Oil Resistant



Rated voltage



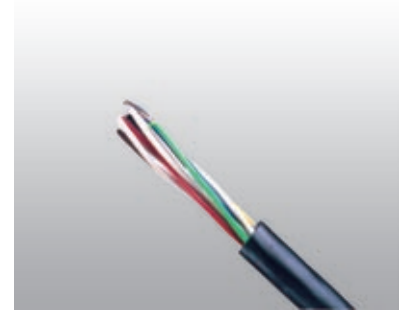
Flame Retardant  
NF C32-070-2.1(C2)  
IEC 60332-1/EN 50265-2-1



## ZUG/ ZUT/ SUG Indoor Equipment Cables

### Applications

The cables are used as cabling for the relays and electronic equipments in the Traffic Control Center and Trackside Equipment Shelter. The cables are suitable for indoor interconnection of railway network equipments.

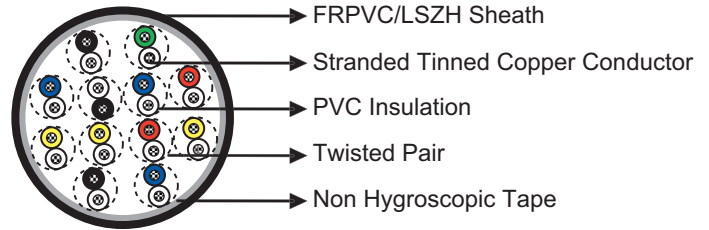


### Standards

- SNCF CT 455

### Construction

- Conductors: Class 5 stranded tinned copper, 1 mm<sup>2</sup> or 0.38 mm<sup>2</sup> cross section.
- Insulation: Coloured PVC.
- Cabling Element: Pairs (for ZUG/ZUT)/Cores (for SUG).
- Core Wrapping (optional): Plastic tape(s) with overlapping.
- Screen (optional): Tinned copper braid for electrostatic protection (only for ZUT type).
- Sheath: Black FRPVC compound. LSZH option can be offered upon request.



### Electrical Characteristics at 20°C

No of Strands/ Strand Diameter	No/mm	12/0.2	32/0.2
Nominal Cross Section Area	mm <sup>2</sup>	0.38	1
Maximum Conductor Resistance (DC)	Ω/km	52.5	20.1
Operating Voltage	V	450/750	450/750

### Mechanical and Thermal Properties

- Minimum Bending Radius: 4×OD (static); 8×OD (dynamic)
- Operating Temperature: -15°C to +70°C

### Dimensions and Weight

#### ZUG Cables

Cable Code	Number of Pairs	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
12/0.2mm Conductor, 1.4mm Insulated Wire				
RS/ZUG-075-YY-28P0.38S	28	0.7	15.7	310
32/0.2mm Conductor, 2.09mm Insulated Wire				
RS/ZUG-075-YY-1P1S	1	0.7	7.0	59



Cable Code	Number of Pairs	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
RS/ZUG-075-YY-3P1S	3	0.7	9.9	108
RS/ZUG-075-YY-6P1S	6	0.7	12.4	184
RS/ZUG-075-YY-12P1S	12	0.7	15.7	335

## SUG Cables

Cable Code	Number of Conductors	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
32/0.2mm Conductor, 2.09mm Insulated Wire				
RS/SUG-075-YY-3C1S	3	0.7	8	73

## ZUT Cables

Cable Code	Number of Pairs	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
32/0.2mm Conductor, 2.09mm Insulated Wire				
RS/ZUT-075-YCY-2P1S	2	0.7	9.5	122
RS/ZUT-075-YCY-6P1S	6	0.7	13.5	276
RS/ZUT-075-YCY-12P1S	12	0.7	17.5	445



Rated voltage



Laid In Cable Tray



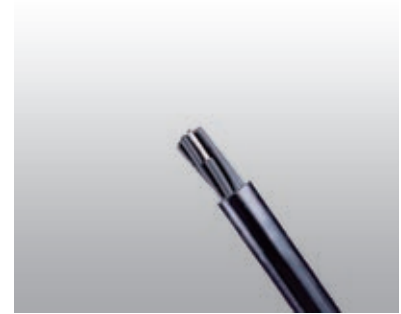
Flame Retardant  
NF C32-070-2.1(C2)  
IEC 60332-1/EN 50265-2-1



## SCG Local Control Cables

### Applications

The cables are designed as local control or power supply cables for trackside and between the rails equipments inside the equipment shelter.

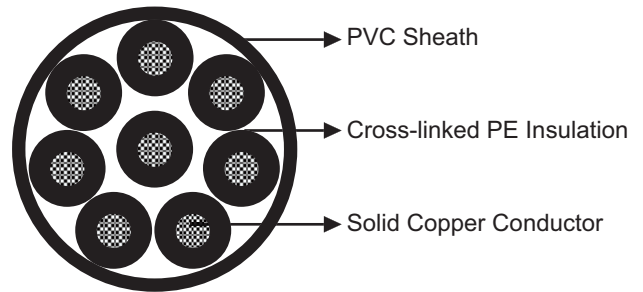


### Standards

- SNCF CT 466

### Construction

- Conductors: Class 1 tinned solid copper.
- Insulation: Cross-linked black polyethylene (XLPE) insulation.
- Sheath: PVC sheath, coloured black.



### Electrical Characteristics at 20°C

Nominal Conductor Diameter	mm	1.78	2.76
Nominal Cross Section Area	mm <sup>2</sup>	2.5	6
Maximum Conductor Resistance (DC)	Ω/km	7.56	3.11
Operating Voltage	V	750	

### Mechanical and Thermal Properties

- Minimum Bending Radius: 5×OD (static); 10×OD (dynamic)
- Operating Temperature: -20°C to +90°C



Rated voltage



Laid In Cable Tray



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

### Dimensions and Weight

Cable Code	Number of Cores	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1.78mm Conductor, 4mm Insulated Wire				
RS/SCG-075-2XY-2G2.5	2	3.0	14	227
RS/SCG-075-2XY-4G2.5	4	3.2	17	336
RS/SCG-075-2XY-6G2.5	6	3.7	19.5	475
RS/SCG-075-2XY-8G2.5	8	3.9	21	542
2.76mm Conductor, 5.4mm Insulated Wire				
RS/SCG-075-2XY-2G6	2	3.6	18	384
RS/SCG-075-2XY-4G6	4	3.7	20.5	550
RS/SCG-075-2XY-6G6	6	3.9	23.5	780
RS/SCG-075-2XY-8G6	8	4.1	26	940