

## ZPGU Local Signalling Cables (DC Electrified Lines)

### Applications

The cables are designed for internal connection inside cabling of equipment shelters along the trackside. The shielded cables are suitable for local circuits.

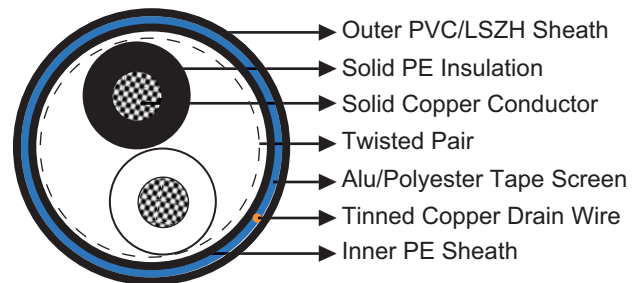
### Standards

- SNCF CT 445
- NF F 55-698



### Construction

- Conductors: Class 1 solid copper, 1.0 mm<sup>2</sup> nominal cross section area.
- Insulation: Solid polyethylene.
- Cabling Element: Each two conductors are twisted together to form a pair.
- Inner Sheath: PE.
- Screen: Aluminium/Polyethylene tape screen.
- Drain Wire: Tinned copper drain wire.
- Outer Sheath: PVC/LSZH.



### Electrical Characteristics at 20°C

|                                         |                 |      |
|-----------------------------------------|-----------------|------|
| Nominal Conductor Diameter              | mm              | 1.13 |
| Nominal Cross Section Area              | mm <sup>2</sup> | 1.0  |
| Maximum Conductor Resistance (DC)       | Ω/km            | 18.1 |
| Maximum Mutual Capacitance @1000Hz (AC) | nF/km           | 55   |
| Operating Voltage                       | V               | 750  |

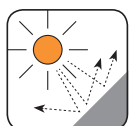
### Mechanical and Thermal Properties

- Minimum Bending Radius: 8×OD (static); 16×OD (dynamic)
- Temperature Range: -40°C to +70°C (during operation); -20°C to +50°C (during installation)



## ➤ Dimensions and Weight

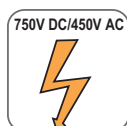
| Cable Code                           | No. of Pairs | Nominal Sheath Thickness mm |       | Nominal Overall Diameter mm | Nominal Weight kg/km |
|--------------------------------------|--------------|-----------------------------|-------|-----------------------------|----------------------|
|                                      |              | Inner                       | Outer |                             |                      |
| 1.13mm Conductor, 2.3 Insulated Wire |              |                             |       |                             |                      |
| RS/ZPGU-2Y2Y(L)Y-1P1S                | 1            | 1.0                         | 1.5   | 9.8                         | 95                   |
| RS/ZPGU-2Y2Y(L)Y-2P1S                | 2            | 1.0                         | 1.5   | 10.6                        | 130                  |
| RS/ZPGU-2Y2Y(L)Y-3P1S                | 3            | 1.0                         | 1.5   | 13.2                        | 179                  |
| RS/ZPGU-2Y2Y(L)Y-7P1S                | 7            | 1.0                         | 1.7   | 18.3                        | 301                  |
| RS/ZPGU-2Y2Y(L)Y-14P1S               | 14           | 1.2                         | 1.8   | 21.3                        | 532                  |



UV Resistant



Mineral Oil Resistant



Rated voltage



Buried in Ground



Laid In Ducts

PVC Sheath



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

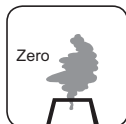
LSZH Sheath



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

