ZPGU Local Signalling Cables (DC Electrified Lines)

Applications

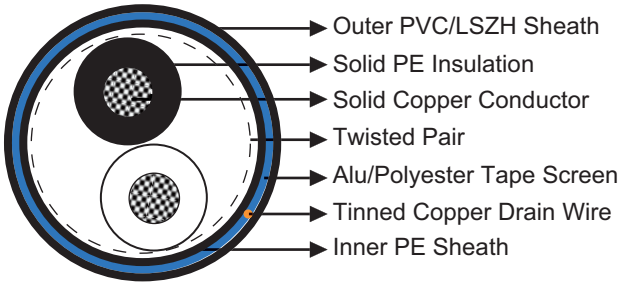
The cables are designed for internal connection inside cabling of equipment shelters along the trackside. The shielded cables are suitable for local circuits.

Standards

- SNCF CT 445
- NF F 55-698

Construction

- Conductors: Class 1 solid copper, 1.0 mm² 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℃

Nominal Conductor Diameter	mm	1.13
Nominal Cross Section Area	mm²	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℃ to +70℃ (during operation); -20℃ to +50℃ (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 Ciround


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