



**Caledonian**

Railway Cables

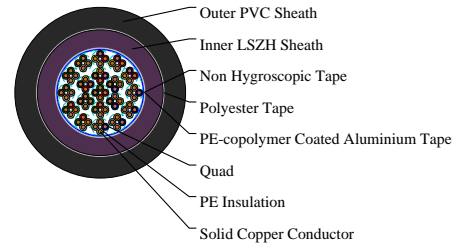
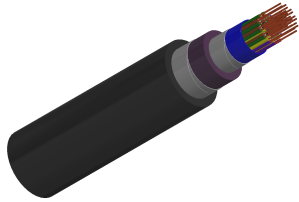
www.caledonian-cables.com

marketing@caledonian-cables.com

## G7622 Trackside Communications Cables

G7622 A1 Type 1 Cables

RS7622A1/T1-02Y(L)HY-38P0.63



## APPLICATIONS

The cables are designed for installation in trackside bracket runs and for use within railway equipment rooms within open locations (type 1) or in subsurface tunnels and underground locations (type 2).

## STANDARDS

LUL Spec G7622 A1 type 1 (for PVC sheath)

LUL Spec G7622 A1 type 2 (for LSZH sheath)

## VOLTAGE RATING

750V DC/450V AC

## CABLE CONSTRUCTION

Conductors: Solid plain copper.

Insulation: Cellular polyethylene.

Cabling Element: Four insulated conductors are twisted together to form a quad.

Stranding: Conductors are helically stranded in concentric layers.

Core wrapping: Plastic tape (s) with overlapping.

Moisture Barrier: One laminated sheath made of aluminium tape (0.15mm thick) coated with PE-Copolymer on at least one side is applied with longitudinally overlap.

Inner sheath: LSZH sheath, coloured violet.

Tap: Polyester tape.

Outer sheath: PVC sheath.

## COLOUR CODE

Quad colours in centre and even layers:

1st Quad (Marker): ORANGE+WHITE+BLUE+GREY

Even Quads: RED+WHITE+VIOLET+YELLOW

Odd Quads: BROWN+WHITE+GREEN+GREY

Last Quads: ORANGE+WHITE+RED+GREEN

Quad colours in odd layers:



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1st Quad (Marker): ORANGE+BLACK+BLUE+GREY

Even Quads: RED+BLACK+VIOLET+YELLOW

Odd Quads: BROWN+BLACK+GREEN+GREY

Last Quads: ORANGE+BLACK+RED+GREEN

Quad Whipping Colours:

1st Quad (Marker):WHITE/ORANGE

Even Quads: WHITE

Odd Quads:WHITE

Last Quads:WHITE/ORANGE

## PHYSICAL AND THERMAL PROPERTIES

Minimum Bending Radius: 7.5xOD

Temperature Range: -40°C to +70°C (during operation); -10°C to +50°C (during installation)

## Electrical Properties

Electrical Characteristics at 20°C:

Nominal Conductor Diameter:0.63 mm

Maximum Conductor Resistance:

Average value:57.5 Ω/km

Individual value:59 Ω/km

Minimum Insulation Resistance @500 V DC:1500 MΩ.km

Maximum Average Mutual Capacitance:59 nF/km

Maximum Average Capacitance Unbalance :

Between pairs in same quad:50 pF/460m

Between pairs (centre or in any layer):30 pF/460m

Between any pairs and earth:200 pF/460m

Between phantom and pairs in same quad:300 pF/460m

## DIMENSION AND PARAMETERS

| No. of Pairs | Conductor Diameter | Nominal Diameter over Insulation | Nominal Inner Sheath Thickness | Nominal Outer Sheath Thickness | Nom. Overall Diameter | Approx. Weight |
|--------------|--------------------|----------------------------------|--------------------------------|--------------------------------|-----------------------|----------------|
|              | mm                 | mm                               | mm                             | mm                             | mm                    | kg/km          |
| 38           | 0.63               | 1                                | 2.5                            | 3                              | 27.5                  | 660            |



Buried in Ground



Laid In Ducts



Mineral Oil Resistant



Rated voltage