



# Caledonian

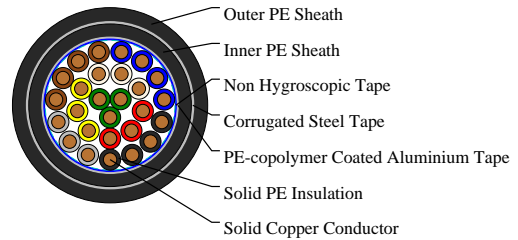
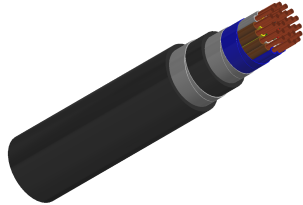
## Railway Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

### EAPSP nx1x1.4

RS/EAPSP-2Y(L)2Y(SR)2Y-27C1.4



## APPLICATIONS

The cables are used as railway cables and can be installed directly into the ground or in ducts.

## STANDARDS

RENFE E.T. 03.365.051.6

## VOLTAGE RATING

300/500V

## CABLE CONSTRUCTION

Conductors: Soft annealed solid copper, 1.4mm nominal diameter.

Insulation: PE Insulation.

Stranding: Cores are helically stranded in concentric layers.

Wrapping: Plastic tape(s) with overlapping.

Moisture Barrier: One laminated sheath made of aluminium tape (0.2mm thick) coated with copolymer on at least one side is applied longitudinally with overlap.

Inner Sheath: PE sheath.

Armour: One corrugated steel tape is longitudinally applied with overlap.

Outer Sheath: PE sheath.

## PHYSICAL AND THERMAL PROPERTIES

Minimum Bending Radius: 10xOD

Temperature Range: -30°C to +70°C (during operation); -10°C +50°C (during installation)

## Electrical Properties

Electrical Characteristics at 20°C:

Nominal Conductor Diameter: 1.4 mm

Maximum Conductor Resistance: 11.7 Ω/km

Minimum Insulation Resistance @500 V DC (1min) : 25000 MΩ.km

Resistance Unbalance: 2%

Test Voltage @50Hz 1min:

Core to Core: 2100 Veff



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Core to Screen:2500 Veff

Core to armouring:2000 Veff

### DIMENSION AND PARAMETERS

| No. of Cores | 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          |
| 27           | 1.4                | 2.6                              | 1.3                            | 1.4                            | 24.8                  | 810            |



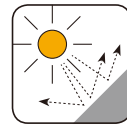
Buried in Ground



Laid In Ducts



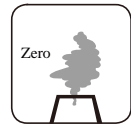
Rated voltage



UV Resistant



Water Resistant



Zero Halogen  
IEC 60754-1/EN 50267-2-1  
NF C20-454