# Railway (FTN) Copper Trackside Cable - PE, PJF, CST



## Description

Copper Trackside Cable, is heavily used in the rail & transport industry and is suitable for installation in trackside concrete cable, buried duct or directly in the earth. The cable produces no corrosive gases when burnt.

## Key Features

**Temperature Limits**
Temperature Range: -25°C to +85°C

## Core Colours

2 twisted pair, Colours as per tables below

## Standards

- BS6360, Insulation to BS 6234, Network Rail Specification NR/PS/TEL/00015

## Construction

- **Conductor**: Solid Plain Annealed Copper Conductors
- **Insulation**: Polyethylene (PE) Type 03
- **Water Blocking**: Petroleum Jelly filled
- **Inner Sheath**: Polyethylene with Moisture Barrier of longitudinal AL/P (Aluminium / Polymer Tape)
- **Separator**: Impregnated Paper and/or NonHygroscopic Tape
- **Armour**: Corrugated Steel Armour
- **Sheath**: Polyethylene (PE)
- **Sheath Colour**: Black

## Training & Testing Lab

AN ISO/IEC 17025 ACCREDITED FACILITY

**Cleveland Cable Test & Training Lab**
Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing.

ISO/IEC 17025 Accredited Testing Laboratory

**CPR**
Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.

## Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.

**ecovadis**
Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

## Railway (FTN) Copper Trackside Cable - PE, PJF, CST - Dimensions

| Reference | Conductor Size (mm2) | No Of Cores | No Of Pairs | Stranding(mm) | Overall Diameter(mm) | Weight(Kg/Km) | Rail Code | Gland Size |
|---|---|---|---|---|---|---|---|---|
| 13790 | 0.63 | 50 Pair | 50 | 1/0.9 | 35.7 | 1550 | 1/168065 | 35.7 |
| 13788 | 0.63 | 30 Pair | 30 | 1/0.9 | 30.9 | 943 | 1/168064 | 30.9 |
| 13786 | 0.63 | 20 Pair | 20 | 1/0.9 | 27.6 | 820 | 1/168063 | 27.6 |
| 13784 | 0.63 | 10 Pair | 10 | 1/0.9 | 23.8 | 520 | 1/168062 | 23.8 |
| 13781 | 0.63 | 2 Pair | 2 | 1/0.9 | 19 | 250 | 1/168061 | 20 |

# RAILWAY FTN TRACKSIDE CABLE PAIR CORE COLOURS

## LAID UP IN X5 PAIRS

| SUB UNIT CODE A | | | SUB UNIT CODE B | | |
|---|---|---|---|---|---|
| **PAIR** | **WIRE A** | **WIRE B** | **PAIR** | **WIRE A** | **WIRE B** |
| **1** | **WHITE** | **BLUE** | **1** | **RED** | **BLUE** |
| 2 | WHITE | ORANGE | 2 | RED | ORANGE |
| 3 | WHITE | GREEN | 3 | RED | GREEN |
| 4 | WHITE | BROWN | 4 | RED | BROWN |
| 5 | WHITE | GREY | 5 | RED | GREY |

| PAIR LAPPED WITH COLOURED TAPE | | |
|---|---|---|
| **UNIT NUMBER** | **UNIT CODE** | **BINDING** |
| 1 | A | BLUE |
| 2 | B | BLUE |
| 3 | C | ORANGE |
| 4 | D | ORANGE |

## LAID UP IN X10 PAIRS

| SUB UNIT CODE A | | | | | | PAIR LAPPED WITH COLOURED TAPE | | | |
|---|---|---|---|---|---|---|---|---|---|
| **PAIR** | **WIRE A** | **WIRE B** | **PAIR** | **WIRE A** | **WIRE B** | **UNIT** | **BINDING** | **UNIT** | **BINDING** |
| 1 | WHITE | BLUE | 1 | RED | BLUE | 1 | BLUE | 6 | WHITE |
| 2 | WHITE | ORANGE | 2 | RED | ORANGE | 2 | ORANGE | 7 | RED |
| 3 | WHITE | GREEN | 3 | RED | GREEN | 3 | GREEN | 8 | BLACK |
| 4 | WHITE | BROWN | 4 | RED | BROWN | 4 | BROWN | 9 | YELLOW |
| 5 | WHITE | GREY | 5 | RED | GREY | 5 | GREY | 10 | VIOLET |



31196

## RAILWAY FTN TRACKSIDE CABLE- ELECTRICAL CHARACTERISTICS

| NOMINAL CROSS SECTIONAL AREA | NUMBER OF PAIRS | MUTUAL CAPACITANCE (nF/km) | | Conductor resistance @20°C (Ω) | |
|---|---|---|---|---|---|
| $mm^2$ | | Max Average | 99% | Max Average | 99% |
| 0.63 | 2 | 70.00 | 79.00 | 58.00 | 60 |
| 0.90 | 2 | 79.00 | 85.00 | 28.00 | 30 |
| 0.63 | 5 | 70.00 | 79.00 | 58.00 | 60 |
| 0.90 | 5 | 79.00 | 85.00 | 28.00 | 30 |
| 0.63 | 10 | 70.00 | 79.00 | 58.00 | 60 |
| 0.90 | 10 | 79.00 | 85.00 | 28.00 | 30 |
| 0.63 | 20 | 70.00 | 79.00 | 58.00 | 60 |
| 0.90 | 20 | 79.00 | 85.00 | 28.00 | 30 |
| 0.63 | 30 | 67.00 | 75.00 | 58.00 | 60 |
| 0.90 | 30 | 75.00 | 81.00 | 28.00 | 30 |
| 0.63 | 50 | 67.00 | 75.00 | 58.00 | 60 |
| 0.90 | 50 | 75.00 | 81.00 | 28.00 | 30 |
| 0.63 | 75 | 67.00 | 75.00 | 58.00 | 60 |
| 0.90 | 100 | 75.00 | 81.00 | 28.00 | 30 |
| 0.63 | 100 | 67.00 | 75.00 | 58.00 | 60 |

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.



31196