

# Shielded Twisted Pair Data Transmission Cable

This shielded twisted pair cable is designed for data transmission and control in electronic systems. It is suitable for harsh environments with high electrical interference.



## Overview

### High-Performance Data Transmission Cable

This shielded twisted pair data transmission cable is engineered for reliable performance in data transmission and electronic control systems. Featuring both individual and overall tinned copper braiding, it provides robust resistance against both internal and external electromagnetic interference (EMI). With a durable PVC construction and flame-resistant properties, this cable is designed to maintain signal integrity in demanding industrial environments.

## Electrical Specifications

### Rated Voltage

**350 V**

For 0.14mm<sup>2</sup>

**500 V**

For >0.14mm<sup>2</sup>

### Test Voltage

Cross-section	Voltage
<0.25mm <sup>2</sup>	1200V/min (AC)
≥0.25mm <sup>2</sup>	1500V/min (AC)

Capacitance (core/core) 120 nF/km

Insulation Resistance (at 20) e20M@M

## Mechanical Properties

### Minimum Bending Radius

- Fixed Application: 7.5D (D=cable diameter)
- Occasional Movement: 15D (D=cable diameter)

### Temperature Range

- Fixed Application: -40 to 80
- Occasional Movement: -5 to 70

## Construction

### Material Composition

Component	Material
Conductor	Fine stranded bare copper (IEC 60228/VDE 0295)
Insulation	PVC
Individual Shield	Tinned copper braiding
Core Jacket	PVC inner jacket
Overall Shield	Tinned copper braiding
Outer Jacket	PVC (Grey, RAL7035)

## Features

### Key Features

Flame Resistance (IEC60332-1), High Tensile Strength, Conditional Oil Resistance, Internal EMI Protection, External EMI Protection