Thermocouple TX Overall Screen Armoured Cable



Description

The Thermocouple TX Overall Screen Armoured Cable range, supplied by Cleveland Cable Company, comprises instrumentation extension cables designed to transmit temperature data from Type T thermocouple sensors. Manufactured to specifications including IEC 60584-3, BS 4937 and ANSI MC 96.1, these cables have a 300V instrumentation rating. Construction features matched extension alloys, with a positive plain copper (Cu) conductor and negative copper-nickel (CuNi) conductor, insulated with flame-retardant PVC. An overall aluminium/polyester foil screen and tinned copper drain wire help minimise electromagnetic interference and signal distortion. The cores are enclosed in PVC bedding, galvanised steel wire armour (SWA) and a robust black PVC outer sheath.

Designed for industrial environments exposed to electrical interference and mechanical stress, these cables are suitable for power stations, oil refineries, chemical processing plants and heavy manufacturing facilities where reliable temperature monitoring is essential. The steel wire armour provides protection against impact, tensile stress and crushing, while the outer sheath resists weathering, UV radiation and chemical ingress. Operating temperatures range from -30°C to +105°C.

Suitable for fixed installations, these cables can be direct buried in free-draining soil, installed through underground plastic ducts and conduits, or routed above ground on external structures, building walls and indoor or outdoor cable trays. A minimum bending radius of 15 times the overall cable diameter must be maintained after fixed installation to support mechanical and electrical performance.

Key Features

Core Colours

Positive: Orange

Negative: White

Standards

- IEC 60332-1-2
- BS EN/IEC 60584-3
- NF C 32-070

Construction

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

Thermocouple TX Overall Screen Armoured Cable - Dimensions

Reference	Conductor Size (mm2)	No Of Pairs	Stranding(mm)	Overall Diameter(Lower)	Overall Diameter(Upper)	Weight(Kg/Km)
TCOUPTXOSA3X2X0/5	0.5	3	1/0.8	11.40	13.30	230
TCOUPTXOSA7X2X0/5	0.5	7	1/0.8	14.00	16.20	320
TCOUPTXOSA12X2X0/5	0.5	12	1/0.8	17.30	19.70	475
TCOUPTXOSA19X2X0/5	0.5	19	1/0.8	20.50	23.70	660
TCOUPTXOSA27X2X0/5	0.5	27	1/0.8	23.10	26.70	830
TCOUPTXOSA1X2X1	1	1	14/0.3	9.70	11.30	180
TCOUPTXOSA1X2X1	1.34	1	1/1.3	9.80	11.20	190

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