

THHN/THWN-2 Screened Cable



Description

THHN/THWN-2 screened cables are specifically manufactured for petrochemical, oil & gas industries, where resistance to aliphatic and aromatic hydrocarbons is essential. These cables are suitable for installation in Class I, Division 2 hazardous locations, defined as "areas where flammable gases or vapours may be present under abnormal conditions, but are not normally encountered during standard operations". THHN references the Nylon-coated conductor wire, THWN-2 the 90°C PVC insulation layer

THHN/THWN-2 screened Cables have copper conductors insulated with flame-retardant PVC and a nylon binder tape. The cable is screened with an aluminium tape foil to prevent electromagnetic interference combined with a tinned copper drain wire, for signal integrity. The cables have a UV-resistant PVC outer sheath. THHN/THWN-2 cables are approved for use in wet or dry locations and are engineered to meet the rigorous demands of the oil industry,. They are suitable for installation in trays, wireways, ducts, conduits, aerial applications with proper support, and are fully approved for direct burial.

Key Features



Voltage Rating
600 Volts



Minimum Bending Radius
8 x Overall Diameter



Temperature Limits
Maximum operating temperature: +90°C

Standards

- UL 1277
- ICEA S-73-532

Construction

- **Conductor:** Copper Conductor
- **Insulation:** Flame Retardant Nylon / Polyvinyl Chloride (PVC-FR Nylon)
- **Insulation Screen:** Aluminium tape (AL)
- **Drain Wire:** Tinned Copper
- **Ripcord:** Nylon
- **Outer Sheath:** Polyvinyl Chloride (PVC)
- **Sheath Colour:** Black

QA Lab

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. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.



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

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THHN/THWN-2 Screened Cable - Dimensions

Reference	AWG Stranding	No Of Cores	Sheath Thickness (mm)	Overall Diameter(mm)	Weight(Kg/Km)
THHN/THWN2CUPVCSCR 2X10AWG	10	2	1.15	11.00	190
THHN/THWN2CUPVCSCR 2X12AWG	12	2	1.15	9.35	135
THHN/THWN2CUPVCSCR 3X10AWG	10	3	1.15	11.55	250
THHN/THWN2CUPVCSCR 3X12AWG	12	3	1.15	9.90	175
THHN/THWN2CUPVCSCR 3X14AWG	14	3	1.15	8.70	130
THHN/THWN2CUPVCSCR 4X10AWG	10	4	1.15	12.65	290
THHN/THWN2CUPVCSCR 4X12AWG	12	4	1.15	10.75	220
THHN/THWN2CUPVCSCR 4X14AWG	14	4	1.15	9.45	160
THHN/THWN2CUPVCSCR 5X10AWG	10	5	1.15	14.60	415
THHN/THWN2CUPVCSCR 5X12AWG	12	5	1.15	11.70	275
THHN/THWN2CUPVCSCR 5X14AWG	14	5	1.15	10.25	190
THHN/THWN2CUPVCSCR 6X10AWG	10	6	1.15	15.85	480
THHN/THWN2CUPVCSCR 6X12AWG	12	6	1.15	12.70	310
THHN/THWN2CUPVCSCR 6X14AWG	14	6	1.15	11.10	220
THHN/THWN2CUPVCSCR 7X10AWG	10	7	1.15	16.45	540
THHN/THWN2CUPVCSCR 7X12AWG	12	7	1.15	13.50	340
THHN/THWN2CUPVCSCR 7X14AWG	14	7	1.15	11.65	245
THHN/THWN2CUPVCSCR 8X10AWG	10	8	1.55	17.55	610
THHN/THWN2CUPVCSCR 8X12AWG	12	8	1.15	14.55	395
THHN/THWN2CUPVCSCR 8X14AWG	14	8	1.15	12.15	280
THHN/THWN2CUPVCSCR 10X10AWG	10	10	1.55	20.00	750
THHN/THWN2CUPVCSCR 10X12AWG	12	10	1.15	16.65	515
THHN/THWN2CUPVCSCR 10X14AWG	14	10	1.15	14.75	365

Reference	AWG Stranding	No Of Cores	Sheath Thickness (mm)	Overall Diameter(mm)	Weight(Kg/Km)
THHN/THWN2CUPVCSCR 12X10AWG	10	12	2.05	21.95	935
THHN/THWN2CUPVCSCR 12X12AWG	12	12	1.55	17.40	600
THHN/THWN2CUPVCSCR 12X14AWG	14	12	1.55	15.35	425
THHN/THWN2CUPVCSCR 15X10AWG	10	15	2.05	23.65	1175
THHN/THWN2CUPVCSCR 15X12AWG	12	15	1.55	18.70	720
THHN/THWN2CUPVCSCR 15X14AWG	14	15	1.55	16.50	505
THHN/THWN2CUPVCSCR 15X10AWG	10	19	2.05	25.50	1380
THHN/THWN2CUPVCSCR 15X10AWG	12	19	1.55	20.20	870
THHN/THWN2CUPVCSCR 15X10AWG	14	19	1.55	17.75	620
THHN/THWN2CUPVCSCR 20X10AWG	10	20	2.05	26.20	1445
THHN/THWN2CUPVCSCR 20X12AWG	12	20	1.55	20.80	935
THHN/THWN2CUPVCSCR 20X14AWG	14	20	1.55	18.30	645
THHN/THWN2CUPVCSCR 25X10AWG	10	25	2.05	29.40	1770
THHN/THWN2CUPVCSCR 25X12AWG	12	25	2.05	24.35	1175
THHN/THWN2CUPVCSCR 25X14AWG	14	25	1.55	20.45	790
THHN/THWN2CUPVCSCR 30X10AWG	10	30	2.05	31.40	2100
THHN/THWN2CUPVCSCR 30X10AWG	12	30	2.05	26.00	1380
THHN/THWN2CUPVCSCR 30X10AWG	14	30	2.05	22.85	975
THHN/THWN2CUPVCSCR 37X10AWG	10	37	2.05	33.90	2545
THHN/THWN2CUPVCSCR 37X12AWG	12	37	2.05	7.95	1665
THHN/THWN2CUPVCSCR 37X14AWG	14	37	2.05	24.50	1175
THHN/THWN2CUPVCSCR 40X10AWG	10	40	2.05	35.15	2740
THHN/THWN2CUPVCSCR 40X12AWG	12	40	2.05	29.00	1830
THHN/THWN2CUPVCSCR 40X14AWG	14	40	2.05	25.50	1265

Reference	AWG Stranding	No Of Cores	Sheath Thickness (mm)	Overall Diameter(mm)	Weight(Kg/Km)
THHN/THWN2CUPVCSCR 45X10AWG	10	45	2.05	37.40	3065
THHN/THWN2CUPVCSCR 45X12AWG	12	45	2.05	30.75	2050
THHN/THWN2CUPVCSCR 45X14AWG	14	45	2.05	27.00	1410
THHN/THWN2CUPVCSCR 50X10AWG	10	50	2.05	39.00	3390
THHN/THWN2CUPVCSCR 50X12AWG	12	50	2.05	32.00	2260
THHN/THWN2CUPVCSCR 50X14AWG	14	50	2.05	28.00	1550

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