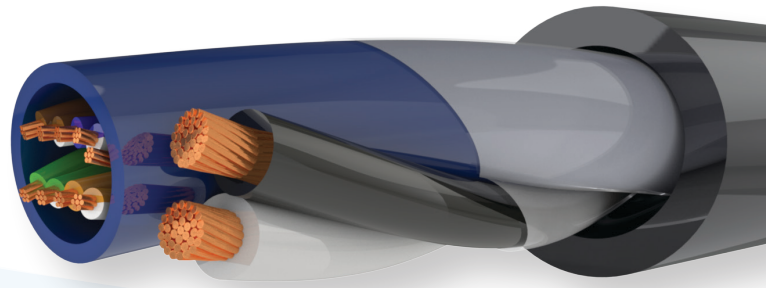
Ruggedized Ethernet Cables

Patch and Long Haul Ethernet Cables for Harsh Environments – Telethane™ jacketed cables

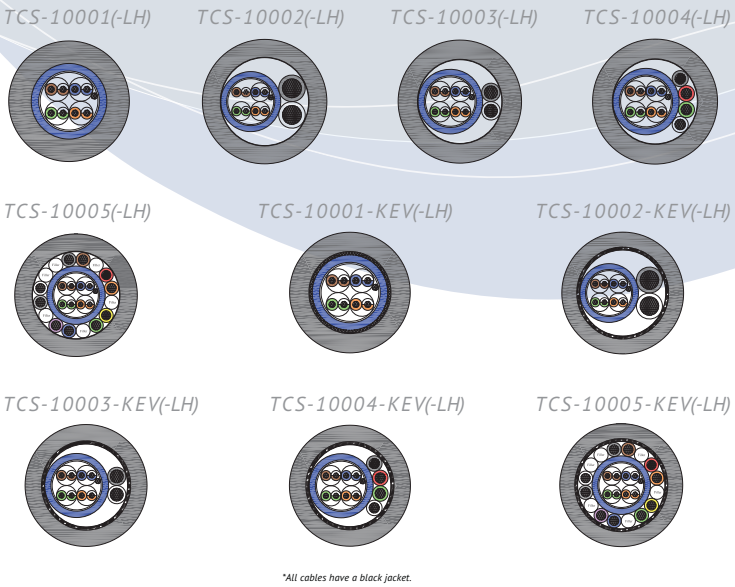
Ruggedized Ethernet cables from Teledyne Storm Cable are used in a variety of applications, from the land based Oil & Gas industry to deep water subsea applications. The cables are designed to maintain the integrity of high speed Ethernet data transmission while surviving in harsh environments. Teledyne Cable Solutions offers optional constructions that include power conductors, strength members, and shielding, as desired. These cables are all manufactured with our Telethane™ jacket. Telethane™ cables are all manufactured with a specially formulated TPU that offers excellent flexibility, resistance to abrasion and a low coefficient of friction. Telethane™ cables have excellent overmold bonding properties, and is available in flame retardant and matte finish versions as required.

Data cable is shielded 100 ohm Category 6a, TIA-568-C.2, Electrical characteristics (100m).

Data pairs are stranded conductors to achieve increased cable flexing. Higher strength ratings can be ordered to meet performance requirements. The Ethernet cable data rates are: 10mb @ 100 meters, 10mb @ 90 meters, and 100mb @ 70 meters.



TCS-10002 Cable



*All cables have a black jacket.

APPLICATIONS

- **High Risk Environments**
- **Oceanographic & Observation**
- **Hydraulic Fracturing and Mining Operations**
- **Land Oilfields**

TELEDYNE MARINE
Everywhereyoulook™

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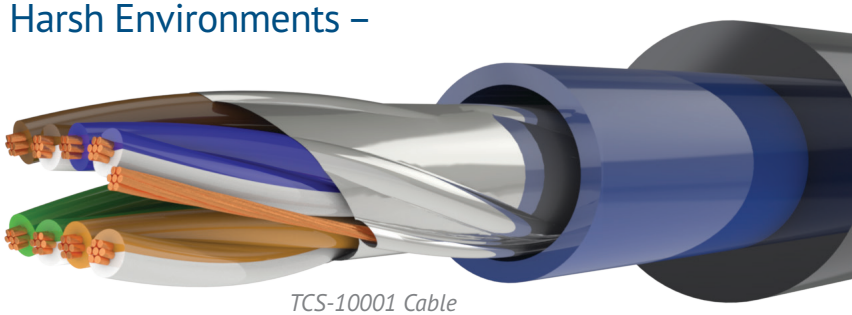

TCS-10001 Cable

APPLICATIONS

- IEEE 802.3: 1000BASE-T (Gigabit Ethernet), 100BASE-TX, 10BASE-TX
- ANSI/TIA/EIA-854: 1000BASE-TX
- 155 Mp/s, 1.2Gb/s ATM
- ANSI X3.263: 100Mb/s
- IEEE 802.3af DTE Power (POE)
- 4/16 Mb/s Token Ring
- Digital Video
- Broadband and Baseband analog video

ELECTRICAL CHARACTERISTICS

- DC Resistance 9.38 Ohms/100m max
- DC Resistance unbalanced 4.0% ind. Pair
- Delay Skew 45 ns/100m
- Characteristic Impedance 100 Ohms +/- 15

P/N	DESCRIPTION	SHIELD	OD (IN/MM)
TCS-10001	Data - 4 Pair 26 AWG	Alum. Mylar	.37/9.52
TCS-10001-KEV	Data - 4 Pair 26 AWG 1200 lb. Break	Alum. Mylar Aramid Braid	.37/9.52
TCS-10002	Data - 4 Pair 26 AWG Power - 2 Cond 14 AWG	Alum. Mylar	.49/12.15
TCS-10002-KEV	Data - 4 Pair 26 AWG Power - 2 Cond 14 AWG 1200 lb. Break	Alum. Mylar Aramid Braid	.49/12.15
TCS-10003	Data - 4 Pair 26 AWG Power - 2 Cond 18 AWG	Alum. Mylar	.45/11.43
TCS-10003-KEV	Data - 4 Pair 26 AWG Power - 2 Cond 18 AWG 1200 lb. Break	Alum. Mylar Aramid Braid	.45/11.43
TCS-10004	Data - 4 Pair 26 AWG Power - 4 Cond 20 AWG	Alum. Mylar	.44/11.30
TCS-10004-KEV	Data - 4 Pair 26 AWG Power - 4 Cond 20 AWG 1200 lb. Break	Alum. Mylar Aramid Braid	.44/11.30
TCS-10005	Data - 4 Pair 26 AWG Power - 10 Cond 20 AWG	Alum. Mylar	.50/12.70
TCS-10005-KEV	Data - 4 Pair 26 AWG Power - 10 Cond 20 AWG 1200 lb Break	Alum. Mylar Aramid Braid	.50/12.70

P/N	DESCRIPTION	SHIELD	OD (IN/MM)
TCS-10001-LH	Data - 4 Pair 23 AWG	Alum. Mylar	.37/9.52
TCS-10001-KEV-LH	Data - 4 Pair 23 AWG 1200 lb. Break	Alum. Mylar Aramid Braid	.37/9.52
TCS-10002-LH	Data - 4 Pair 23 AWG Power - 2 Cond 14 AWG	Alum. Mylar	.49/12.15
TCS-10002-KEV-LH	Data - 4 Pair 23 AWG Power - 2 Cond 14 AWG 1200 lb. Break	Alum. Mylar Aramid Braid	.49/12.15
TCS-10003-LH	Data - 4 Pair 23 AWG Power - 2 Cond 18 AWG	Alum. Mylar	.45/11.43
TCS-10003-KEV-LH	Data - 4 Pair 23 AWG Power - 2 Cond 18 AWG 1200 lb. Break	Alum. Mylar Aramid Braid	.45/11.43
TCS-10004-LH	Data - 4 Pair 23 AWG Power - 4 Cond 20 AWG	Alum. Mylar	.44/11.30
TCS-10004-KEV-LH	Data - 4 Pair 23 AWG Power - 4 Cond 20 AWG 1200 lb. Break	Alum. Mylar Aramid Braid	.44/11.30
TCS-10005-LH	Data - 4 Pair 23 AWG Power - 10 Cond 20 AWG	Alum. Mylar	.50/12.70
TCS-10005-KEV-LH	Data - 4 Pair 23 AWG Power - 10 Cond 20 AWG 1200 lb Break	Alum. Mylar Aramid Braid	.50/12.70

TELEDYNE MARINE
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