

X-Olene® Okoseal®



UL Type TC-ER/ITC -ER and cUL Type CIC-TC* or Oko-Marine Cable

600 Volt Instrumentation/Signal Cable 600/1000V Marine Shipboard Cable

Multi-Pair: Type SP-OS

For Cable Tray Use - Sunlight Resistant - For Direct Burial *cUL CIC-TC-ER sizes 14 AWG & larger

Insulation

X-Olene® is Okonite's trade name for its cross-linked polyethylene (XLPE) insulation, with high dielectric strength.

Cable Jacket

The Okoseal (PVC) jacket supplied with this cable is mechanically rugged and has excellent resistance to acids and most chemicals and is rated for low temperature installations.

Applications

X-Olene Okoseal 600 volt shielded instrumentation cables are designed for use in rugged plant environments, such as Offshore Rig Projects, on Class 1 Remote-Control Signaling circuits or where a 600V instrumentation or control cable is desired. They are designed for use indoors or outdoors; wet or dry locations; in cable trays; in raceways; supported by a messenger wire; and for direct burial. Can be installed as Type TC/ITC in Class I. Division 2: Class II, Division 2; Class III, Division 1; and Zone 2 hazardous locations in accordance with NEC Articles 501.10, 502.10, 503.10, and 505.15. TC-ER (Tray Cable - Exposed Run) eliminates the need for conduit when installed in accordance with NEC

Specifications

Insulated Conductors: Bare soft annealed copper, Class B stranded per ASTM B8.

Article 336.10(7). These cables are

also UL labeled Okomarine and are

listed for marine applications.

Insulation: X-Olene® (XLPE), 30 mils nominal thickness, 90°C temperature rating. Meets or exceeds requirements of UL 1277, UL 2250, UL 1309 Type X90 and IEEE 1580 Type X crosslinked polyethylene insulation.

Color Coding: Pigmented black and white in pairs, black, red and white in triads; white conductor numerically

printed for group identification.

Unit Shield: Aluminum/Polyester tape overlapped to provide 100% coverage, and a tinned-copper Class M drain wire, two sizes smaller than conductor. All multi-unit shields are isolated from each other.

Multiple Unit Assembly: Pairs/Triads assembled with a left-hand lay.

Multiple Unit Cable Shield:

Aluminum/Polyester tape overlapped to provide 100% coverage, and a class M strand tinned copper drain wire, same size as the conductor.

Jacket: Black Okoseal jacket. Complies with UL 1277, UL 2250, UL 1309 & IEEE 1580 Type T, thermoplastic polyvinyl chloride iacket.

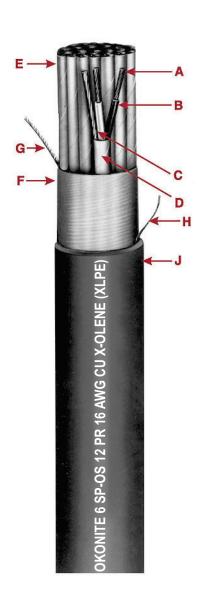
UL Listed as Type TC-ER cable with a sunlight resistant jacket and for direct burial.

UL Listed as Type ITC-ER cable with a sunlight resistant jacket and for direct

UL Listed as Type OKO-MARINE signal cable to the requirements of UL 1309. Also, UL certified as meeting the requirements of IEEE 1580 — Marine Cable.

Product Features

- For cable tray use and direct burial.
- Sunlight resistant.
- Insulated conductors are UL rated 90°C continuous rating in wet or dry locations.
- Flame Retardant passes the vertical tray flame test requirements of IEEE 383-1974 & 1202-2010 and UL 1277.
- X-Olene Okoseal Type TC-ER/ITC-ER cables are quality control inspected to meet or exceed applicable industry standards.
- · Resistant to moisture and most chemical atmospheres.
- · Thermal stability at elevated temperatures.
- CSA C22.2 No. 239 & 230 Type CIC-TC (Type CIC-TC-ER for 14 AWG and larger).
- CSA C22.2 No. 245 Type Marine Shipboard.
- Passes -35°C cold bend test.



- A Copper Stranded Conductor
- **B** X-Olene Insulation
- C Tinned Stranded Copper Group Drain Wire
- D Aluminum/Polyester Tape
- E Twisted, Shielded Pairs
- F Aluminum/Polyester Tape G Tinned Stranded Copper Drain Wire
- H Rip Cord
- J Okoseal Jacket

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Multi-Pair: Type SP-OS

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| ▲ 268-40-3402 ▲ 268-40-3404 ▲ 268-40-3408 ▲ 268-40-3412 | 2 4 8 12 | 60 60 80 80 | 0.59 0.68 0.90 1.06 | 0.28 0.37 0.65 0.91 | 201 264 457 681 | 225 303 521 698 | |
| 268-40-3416 268-40-3420 ▲268-40-3424 268-40-3436 | 16 20 24 36 | 80 80 80 110 | 1.23 1.34 1.44 1.82 | 1.22 1.44 1.66 2.68 | 804 960 1086 1687 | 890 1044 1213 1837 | |
| ▲268-41-3402 ▲268-41-3404 ▲268-41-3408 ▲268-41-3412 | 2 4 8 12 | 60 80 | 0.66 0.78 1.03 1.22 | 0.35 0.49 0.85 1.19 | 245 335 605 806 | 287 374 668 912 | |
| 268-41-3416 268-41-3420 ▲268-41-3424 | 16 20 24 | 0 80 | 1.38 1.52 1.65 | 1.52 1.86 2.18 | 1045 1234 1439 | 1128 1377 1582 | |
| #14 AWG | | | | | | | |
| 268-40-3502 268-40-3504 268-40-3508 268-40-3512 | 2 4 8 12 | 60 60 80 80 | 0.65 0.73 0.98 1.16 | 0.33 0.42 0.75 1.06 | 267 354 621 848 | 288 403 688 923 | |
| 268-40-3516 268-40-3520 268-40-3524 268-40-3536 | 16 20 24 36 | 80 80 80 110 | 1.32 1.46 1.56 1.90 | 1.37 1.67 1.91 2.83 | 1053 1297 1507 2266 | 1233 1464 1648 2571 | |
| 268-41-3502 268-41-3504 268-41-3508 268-41-3512 | 2 4 8 12 | 60 80 | 0.69 0.77 1.04 1.24 | 0.37 0.47 0.85 1.21 | 322 443 790 1094 | 351 496 859 1228 | |
| 268-41-3516 268-41-3520 268-41-3524 | 16 20 24 | 80 | 1.42 1.56 1.67 | 1.58 1.91 2.19 | 1376 1707 1955 | 1559 1840 2216 | |

| ELECTRICAL SPECIFICATIONS | | | | | | | | |
|---|---|--|--|--|--|--|--|--|
| Conductor Resistance, nominal-ohms/1000 f@20°C | 4.18 2.62 000 Volts ac 500 Volts ac nms-1000 ft. @25°C 8.36 | | | | | | | |
| Mutual Capacitance (PF/ft.)* #16#14* *Tvpical Value | | | | | | | | |

[▲] Authorized Stock Item. Available from our Customer Service Centers. † Cross-sectional area for calculation of cable tray fill in accordance with NEC Section 392.22.

Length Tolerance: Cut lengths of 1000 feet or longer are subject to a tolerance of \pm 10%; less than 1000 feet \pm 15%.

