

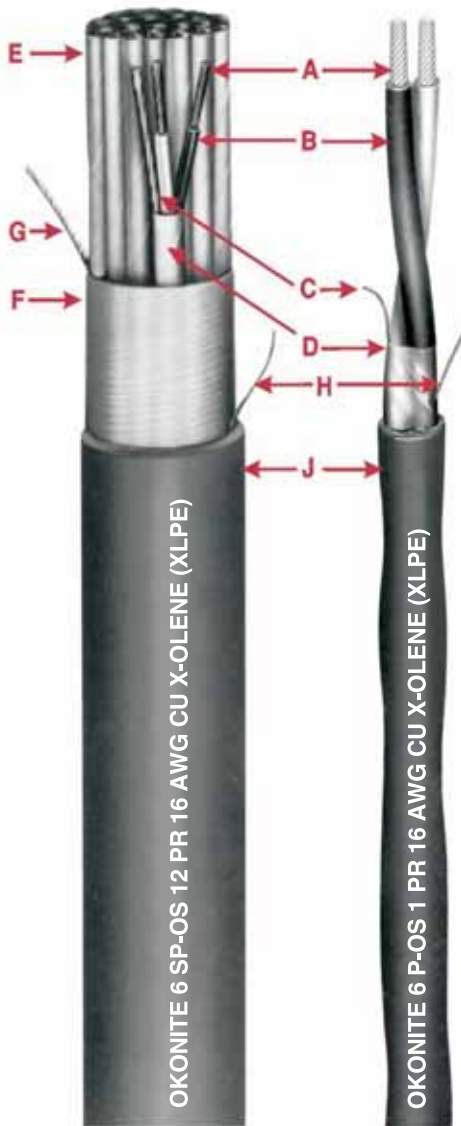


X-Olene Okoseal

Type TC-ER or Oko-Marine Cable

600 Volt Instrumentation/Signal Cable

Single Pair: Type P-OS — Multi-Pair: Type SP-OS



- 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

Insulation

X-Olene® is Okonite's trade name for its cross-linked polyethylene 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 cable is desired, as instrumentation, process control, or computer cable transmitting signals at levels above 100 millivolts in circuits. They are designed for use indoors or outdoors; wet or dry locations; in cable trays; in raceways; supported by a messenger wire; for direct burial; in Class I, Division 2, Class II, Division 2 or Class III, Division 2 hazardous locations. TC-ER (Tray Cable – Exposed Run) eliminates the need for conduit when installed in accordance with NEC Article 336.10(7). These cables are also UL labeled Okomarine and are listed for marine applications.

Specifications

Insulated Conductors: Flexible stranded copper per ASTM B174, Class M.

Insulation: X-Olene® meets or exceeds requirements of UL 1277, UL 1309 Type X90 and IEEE 1580 Type X cross-linked polyethylene insulation.

Color Coding: Pigmented black and white in pairs, black, red and white in triads; white conductor numerically printed for group identification.

Pair Shield: Aluminum/Polyester tape overlapped to provide 100% coverage, and a tinned copper Class

C drain wire, two sizes smaller than the conductor. All multi-pair shields are isolated from each other.

Multiple Unit Assembly:

Pairs/Triads assembled with a left-hand lay. Cable fillers, included where required, providing a round cable.

Multiple Unit Cable Shield: Aluminum/Polyester tape overlapped to provide 100% coverage, and a class B strand tinned copper drain wire, two sizes smaller than the conductor.

Jacket:

Black Okoseal jacket. Complies with UL 1277, UL 1309 & IEEE 1580 PVC, Type T, thermoplastic polyvinyl chloride jacket.

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

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.
- For 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 & 1202-2006 and UL 1277
- X-Olene Okoseal Type TC-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.
- Easy to install and terminate.
- Mechanically rugged.
- High dielectric strength.
- Passes -40°C cold bend test.

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Product Data

Section 5: Sheet 50

#16 AWG

Catalog Number	Number of Pairs	Number of Triads	Jacket Thickness-mils	Nominal Cable O.D. - Inches	Cross-Sectional Area † (sq in)	Approx Net Weight (lbs/1000')	Approx Ship Weight (lbs/1000')
267-37-3401	1	45	0.35	0.10	58	69	
267-38-3401	1	45	0.37	0.11	72	83	
268-37-3402	2	60	0.60	0.28	139	163	
268-37-3404	4	60	0.69	0.37	214	253	
268-37-3408	8	80	0.91	0.65	399	463	
268-37-3412	12	80	1.08	0.91	555	653	
268-37-3416	16	80	1.24	1.22	710	816	
268-37-3420	20	80	1.35	1.44	856	962	
268-37-3424	24	80	1.46	1.66	1000	1142	
268-37-3436	36	110	1.85	2.68	1542	1729	
268-38-3402	2	60	0.67	0.35	173	212	
268-38-3404	4	60	0.79	0.49	277	316	
268-38-3408	8	80	1.04	0.85	521	585	
268-38-3412	12	80	1.23	1.19	732	838	
268-38-3416	16	80	1.39	1.52	936	1042	
268-38-3420	20	80	1.54	1.86	1138	1281	
268-38-3424	24	80	1.67	2.18	1337	1480	

† **Cross-sectional** area for calculation of cable tray fill in accordance with NEC Section 392.9.

Copper or bronze C-L-X available on special order.

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

