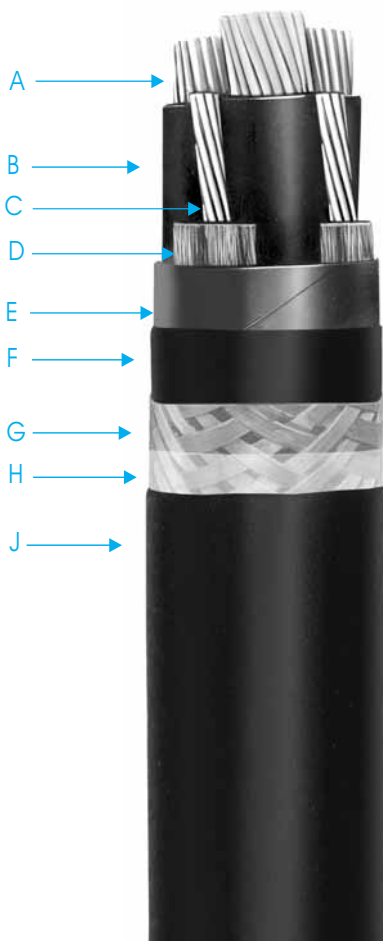




Okonite FMR-P® Okoseal® Armored Shipboard Cable UL Listed as Type OKO-MARINE

Three Conductor Power and Control Cable
Greater Flexibility - 0.6/1kV - Rated 110°C per UL 1309



- A Tinned Copper Conductor
- B Okonite FMR-P Insulation
- C Grounding Conductor
- D Fillers (as needed)
- E Binder Tape
- F Inner Jacket
- G Bronze Wire Armor
- H Separator Tape
- J Outer Jacket

Conductor

Soft annealed flexible Stranded tinned copper per IEEE 1580 Table 11.

Insulation

Okonite Type FMR-P Cross-linked flame retardant meeting the requirements for TYPE P of IEEE 1580

Inner Jacket

A black flame retardant, oil, chemical, abrasion and sunlight resistant thermoplastic compound meeting UL 1309 and IEEE 1580.

Armor

Basket weave wire armor per IEEE 1580 and UL 1309. Bronze standard - Tinned copper available upon request.

Outer Jacket

A black flame retardant, oil, chemical, abrasion and sunlight resistant thermoplastic compound meeting UL 1309 and IEEE 1580.

Applications

Okonite FMR-P Okoseal Armored Shipboard cable is designed for the rigorous requirements of offshore oil drilling and production facilities. UL listed as Type OKO-MARINE cable, it is suitable for use in marine shipboard and offshore platform applications in accordance with API and ABS requirements.

Specifications

Conductors: High strand count flexible conductors make these products easy to install in the hull.

Insulation: Okonite FMR-P is heat, moisture, flame and chemical resistant, mechanically rugged ethylene insulating compound. FMR-P meets or exceeds the requirements of UL 1309 Type X110 and IEEE 1580 for Type P.

Color Coding: Sizes #10 AWG and smaller-base colors and tracers. For sizes #8 AWG and larger, black conductors with surface printing of color and number. Per IEEE 1580 Table 22.

Grounding Conductor: Where indicated, stranded copper per IEEE 1580, Table 11.

Assembly: Conductors cabled in accordance with UL 1309 & IEEE 1580 using fillers, as necessary.

Inner and Overall Jacket: Black Okoseal jacket complies with UL 1309 & IEEE 1580

PVC, Type T, thermoplastic polyvinyl chloride jacket.

Armor: Bronze braided wire armor in accordance with UL 1309/IEEE 1580.

UL listed as Type OKO-MARINE multiconductor control and distribution cable to the requirements of UL 1309. Also, UL certified as meeting the requirements of IEEE 1580 — Marine Cable.

Product Features

- OKO-Marine meets the requirements of IEEE 45, 1202 and 1580, UL 1277, UL 1309 and ABS listed as Marine Shipboard Cable
- Flexible strand construction for easier installation.
- 110°C continuous rating (Type X110) 130°C emergency overload rating 250°C short circuit rating.
- Insulated conductors are UL listed Type X110 and Type P.
- Flame Retardant - passes the vertical tray flame test requirements of IEEE 1202-1991.
- Quality control inspected to meet or exceed applicable Industry standards.
- Resistant to moisture and most chemical atmospheres.
- Thermal stability at elevated temperatures.
- Flexible, easy to install and terminate.
- Mechanically rugged.
- High dielectric strength.
- Sunlight resistant.
- Low installation temperature, Passes -40°C cold bend and -35°C cold impact.

Okonite FMR-P Okoseal Armored Armored Shipboard Cable

UL Listed as Type OKO-MARINE

Three Conductor Power and Control Cable

Catalog Number	Conductor Size AWG or kcmil		Conductor Size mm ²	Number of Strands	Insulation Thickness-mils	Grounding Conductor Size - AWG	Nominal Diameter over Inner Jacket - Inches	Nominal Diameter over Bronze Armor - Inches	Nominal Diameter over Outer Jacket - Inches	Nominal Net Weight (lbs./kFt.)		Nominal Shipping Weight (lbs./kFt.)		
												Ampacity* 110°C In Air 45°C Ambient	Ampacity* 100°C In Air 45°C Ambient	Ampacity* 90°C In Air 45°C Ambient
507-16-1503	14	2.1	19	30	3x#18	0.407	0.457	0.594	256	277	27	25	24	
507-16-1603	12	3.3	19	30	3x#16	0.448	0.498	0.635	311	334	33	31	29	
507-16-1703	10	5.3	37	30	3x#14	0.502	0.552	0.689	388	388	43	41	38	
508-16-1001	8	8.4	37	45	3x#14	0.677	0.727	0.906	602	655	55	52	59	
508-16-1011	6	13.3	61	45	3x#12	0.752	0.802	0.981	761	819	74	70	65	
508-16-1016	4	21.1	133	45	3x#12	1.045	1.095	1.274	1149	1301	95	92	83	
508-16-1021	2	33.6	133	45	3x#10	1.179	1.229	1.408	1514	1666	126	122	111	
508-16-1026	1	42.4	209	55	3x#10	1.371	1.421	1.600	2028	2171	149	143	131	
508-16-1031	1/0	53.5	266	55	3x#10	1.482	1.532	1.773	2275	2462	171	164	150	
508-16-1036	2/0	67.4	342	55	3x#10	1.523	1.573	1.814	2558	2745	197	188	173	
508-16-1041	3/0	85.0	418	55	3x#8	1.777	1.827	2.068	3277	3569	229	218	201	
508-16-1046	4/0	107.2	532	55	3x#8	1.865	1.915	2.156	3866	4158	270	252	232	
508-16-1051	262	132.2	646	65	3x#7	2.060	2.110	2.351	4533	5092	315	294	273	
508-16-1056	313	159.0	777	65	3x#7	2.233	2.283	2.524	5216	5843	344	321	298	
508-16-1061	373	189.3	925	65	3x#7	2.341	2.391	2.632	5896	6658	387	361	332	
508-16-1066	444	227.2	1110	65	3x#6	2.513	2.563	2.864	6860	7622	440	411	382	
508-16-1071	535	272.6	1332	80	3x#5	2.829	2.879	3.180	8195	8943	498	465	432	
508-16-1076	646	325.6	1591	80	3x#5	3.067	3.117	3.418	9852	11106	553	516	494	
508-16-1081	777	393.8	1924	80	3x#5	3.196	3.246	3.547	10941	12465	602	562	516	
508-16-1086	1111	561.8	2745	110	3x#4	3.870	3.920	4.221	15543	17383	750	701	644	

Manufacturing tolerance for diameters and weight is +/- 5%.
Visit Okonite's website, www.okonite.com for most up to date dimensions.

*Per UL 1309 & IEEE 45 parameters.

Armor -

Alternate tinned or copper armor is available upon request.

Jacket -

Optional jacket types available upon request.

OKO-MARINE CONDUCTOR COLOR CODE

ICEA S-73-532, Method 1, Table E-2 - Color Sequence - Sizes 14 AWG to 10 AWG

Conductor Number	Base Color	Tracer
1	BLACK	—
2	RED	—
3	BLUE	—

Size 8 AWG and larger - Surface printing of numbers and color per ICEA S-73-532 Method 3.