

MIL-DTL-24643 Low Smoke Shipboard Cables

Due to concerns about flammability, smoke, and toxicity, the U.S. Navy introduced the MIL-DTL-24643 cable specification. Generally, this document provides low smoke, flame resistant cables that are approximately equal in size, weight and electrical characteristics to the older MIL-C-915 constructions. The Navy has mandated that these (or MIL-DTL-24640) cables be used on all new constructions and Navy ship modernization projects.

MIL-DTL-24643 covers many types of cable constructions, and utilizes insulation systems of irradiation cross-linked polyolefin, silicone, or EPR depending on the slant sheet. The outer jacket is irradiation cross-linked modified low smoke, zero halogen, polyolefin.

Product Description	Specification Slant Sheets	Link
Power distribution and lighting with circuit integrity: These cables are manufactured with Silicone insulation. These constructions are filled to eliminate the potential of water traveling through the interstices.	15, 16, 17, 18, 20 & 26	5
Thermocouples with circuit integrity: These cables are manufactured with Silicone insulation. These constructions are filled to eliminate the potential of water traveling through the interstices. The overall jacket is a modified Silicone, which is low smoke.	21 & 24	6
Communication with circuit integrity: These cables are manufactured with Silicone insulation. These constructions are filled to eliminate the potential of water traveling through the interstices.	23	7
Computer networking: These cables are manufactured with polyolefin insulation. They are available as shielded or unshielded, with or without water-blocking.	59, 60 & 61	8
Electronic, communication and instrumentation - Coaxial Cables: These cables are manufactured with irradiation cross-linked polyolefin insulation.	28, 30, 39 & 40	9
Electronic, communication and instrumentation - Twisted Pair Cables: These cables are manufactured with irradiation cross-linked polyolefin insulation.	27, 45, 46, 57 & 58	10
Electronic, communication and instrumentation - Shielded Pairs Cables: These cables are manufactured with irradiation cross-linked polyolefin insulation.	31, 32, 33 & 56	11
Electronic, communication and instrumentation - Misc. Cables: These cables are manufactured with irradiation cross-linked polyolefin insulation.	35, 36, 37, 38, 41, 42, 47 & 53	12

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