

Multipair Individually Screened Silicone Insulated, “LFH” Sheathed Cable for Military Vessels

DS 02-527 (NES527) 440V 105°C



Application

Fire resistant cable for control, instrumentation use, etc., in military vessels where the cable is required to retain circuit integrity in the event of a fire, for emergency lighting, alarms, shutdown systems etc. Incorporates LFH (Limited Fire Hazard) sheath for reduced levels of smoke and toxic fumes in the event of a fire.

Specifications

- In accordance with DS 02-527.
- **Conductor:** Stranded Class 2 tinned copper conductors to BS EN 60228.
- **Insulation:** Silicone rubber insulation to BS7655 + fibre glass braid and lacquer.
- 0.15mm tinned copper wire braid applied over each pair (minimum 0.5 filling factor).
- **Screen Isolation Tape:** p.e.t.p. tape 50% overlap.
- **Pair Identification:** Pairs shall be numbered and printed thus:
 - 1 pair - cores numbered 1 and 2.
 - 2 pair - cores numbered 1 and 2 for the first pair, and 3 and 4 for the second pair.For a greater number of pairs the numbering shall be similarly extended.
- **Outer Sheath:** Black LFH (Limited Fire Hazard) outer sheath to DEF61-12 part 31. In addition, the outer sheath also displays the following characteristics:
 - Minimum oxygen index: 30%.
 - Maximum HCL emission @ 800°C: 0.5%.
- Flame retardant to BS EN 50266-2-3 NMV 3.5 (IEC60332-3-23 Category B) as a minimum.
- Meets 3 hour 750°C fire test (identical to IEC60331).
- **Voltage Rating:** 440V.
- **Temperature Rating:** 105°C maximum conductor operating temperature.

N.B. Cables also retain a degree of flexibility under weatherdeck conditions of -30°C.

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N.S.N. 6145-99-521	Anixter Number A10DW-521	Nominal Cond Area mm ²	Nominal Cond Stranding #/mm	Number of Pairs	Insulation Thickness mm	Nominal O/D mm
-6910	-6910-M	1.0	7/0.44	1	0.5	9.20
-6924	-6924-M	1.0	7/0.44	3	0.5	14.90
-6925	-6925-M	1.0	7/0.44	4	0.5	16.30
-6926	-6926-M	1.0	7/0.44	7	0.5	19.70

N.B. Details of weights of cable to DS 02-527 are available on request.