

Multi-Core Individually Screened Flexible “LFH” Insulated and Sheathed Cable for Military Vessels

DS 02-526 (NES526) 440V 85°C



Application

Multi-core individually screened cables for control circuits in HM surface ships and vessels. Incorporates LFH (Limited Fire Hazard) insulation and sheath for reduced levels of smoke and toxic fumes in the event of a fire. For use in fixed or flexible applications and suitable for use where fuel, lubricating oils, hydraulic fluids and water are present.

Specifications

- In accordance with DS 02-526.
- **Conductor:** Flexible Class 5 tinned copper conductors to BS EN 60228.
- **Insulation:** Dual layer LFH insulation to DS 02-526.
- **Core Identification:** Cores shall be number printed.
- Composite tinned copper - nylon braid applied over each individual core (minimum 0.61 filling factor).
- **Outer Sheath:** Black LFH 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 60332-1-2 for completed cables with individual conductor size less than 4mm².
BS EN 50266-2-3 NMV 3.5 (IEC60332-3-23 Category B) as a minimum, for completed cables with individual conductor sizes 4mm² and greater.
- **Voltage Rating:** 440V rms (between cores, or between cores and ships structure, or between cores and cable screen).
- **Temperature Rating:** 85°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 Cores	Insulation Thickness mm	Copper Braid Wire Size** mm	Nominal O/D mm
-8470	-8470-M	0.75	24/0.2	3	0.8	0.2	10.9
-8471	-8471-M	0.75	24/0.2	5	0.8	0.2	13.2
-8472	-8472-M	0.75	24/0.2	7	0.8	0.2	15.9
-8473	-8473-M	0.75	24/0.2	14	0.8	0.2	20.3
-8474	-8474-M	0.75	24/0.2	19	0.8	0.2	24.2

N.B. Details of weights of cable to DS 02-526 are available on request.

** Braid consists of: 8 spindles tinned copper wire L/H.
8 spindles 140 denier nylon R/H.