



Fire Resistant Communication Cables  
for the Marine and Offshore Environment

**Armada**<sup>®</sup>  
Marine Cables



## Armada® Fire Resistant Cables for Commercial Shipbuilding and Offshore Platforms



Armada Marine Cables are designed and manufactured using Fire Retardant, Low Smoke, Zero Halogen materials.

Maintaining cable integrity during a fire emergency, allowing data to be transmitted and received is key to monitoring and controlling evacuation and response measures.

The Armada range of fire resistant cables guarantee that security allowing responders and systems to send and receive data and commands in challenging fire conditions.

Armada cables give best in class performance tested to IEC60331-21/22, 23 & IEC60331-25 for 180minutes under DNV witness supervision at 750 / 930 degrees gives.





### LAN / Industrial Ethernet

Excellent performance to stringent IEC/ISO Ethernet standards is achieved in conjunction with compliance to exacting IEC fire performance thanks to a unique fire barrier layer system within each core of Armada cables. The design gives a minimum performance of Cat5e under fire conditions and extends to Cat6a / Cat7 where possible.

### Fibre Optic

Utilised in high noise areas, higher bandwidth requirements or over longer distances (>100m) fibre optic cables provide a vital link in a multitude of offshore applications and a high percentage of these applications call for signals to be maintained without interruption in the event of fire. Armada QFCI cables meet F101 requirements within NEK TS 606:2016 as well as IEC60331-25 FE180..

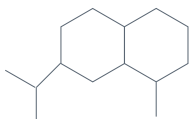


### Fire Performance Capabilities

All Armada cables are tested and subsequently compliant to a wide range of IEC standards for fire performance including IEC60332-3-22 & 24 bunch cable testing. Smoke & acid gas emissions are minimal in line with IEC 61034 and IEC60754 and all are available with Fire Performance to IEC60331 where relevant for 3hours at 750/930 degrees.

### Sheath Materials

Armada fire resistant cable sheath materials meet NEK TS 606:2016 Category A (SHF-1) as a minimum. Optional SHF-2 (Category B / Sheath Code E) materials are used where enhanced oil resistance and/or extended temperature range during install and operation is required. All sheath materials meet or exceed UL1581 standard for UV sunlight with our SHF-2 material recommended for ozone resistance typically tested to IEC60811.



### Mud Resistant Properties

MUD Resistant versions of all fire resistant cables are compliant to NEK TS 606:2016 Category C & D (Sheath Code E & H). These cables are ultimately suited to drilling area installations as well as windfarm applications within turbine shafts where Hydraulic / Gear oil may be present over time.

### Mechanical Armour

For open air, open deck or tray applications the installer can choose to further protect their asset with the strength of steel. Galvanised wires applied between two jackets gives the cable extra protection from mechanical damages while remaining compact and lightweight. Copper Wires may also be used according to customer requirements.





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