

# DURAELECTRIC™

**The Ultimate in Durable Wire, Cable  
and Conduit Jacketing**



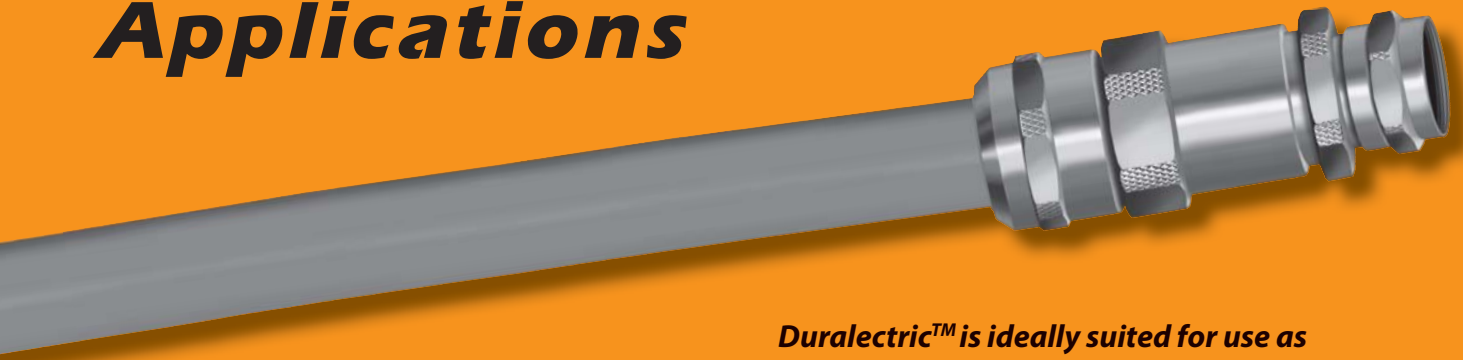
## ***Virtually Maintenance-Free Dielectric Jacketing Material Protects Wires, Cables and Conduits in Mission-Critical Applications***

Most wire and cable specifiers have simple expectations, such as dielectric materials that don't break down over time—requiring expensive replacement long before the lifetime of the ship, plane or vehicle is reached. They also want jacket materials that can withstand high heat, extreme UV radiation, demanding weather conditions and caustic chemicals and fluids. Glenair **Duraelectric™** material delivers on these expectations—and *a whole lot more*. The dielectric material is a special formula with extremely-high durability in such measures as UV weathering, temperature tolerance, low smoke and toxicity index, flame resistance, and halogen free (IEC754-1) ratings.

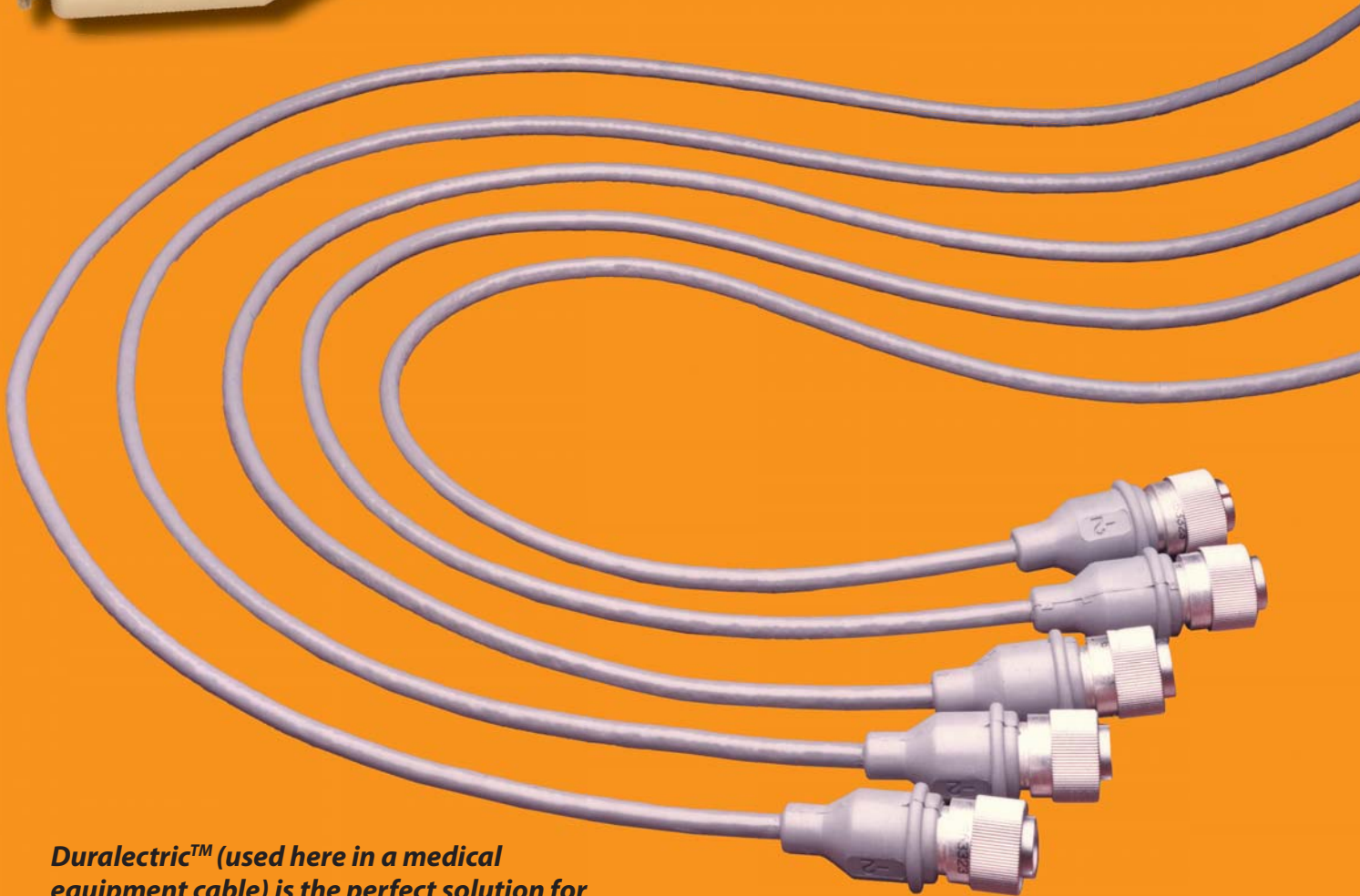


***Duraelectric™ (shown here  
in its desert tan color)  
is the perfect solution  
for wire protection  
conduits used in military  
vehicles, aircraft and  
other mission-critical  
applications.***

# ***Proven Performance Applications***



*Duralectric™ is ideally suited for use as an overmolding compound and extruded cable jacket material (below), as well as in blown-jacket applications such as the conduit assembly shown above.*



*Duralectric™ (used here in a medical equipment cable) is the perfect solution for long-term durability of wire and cable in halogen-free and low smoke-index applications.*

# Material Specifications

Glenair **Duralectric™** weatherproof jacketing is halogen free, flame resistant, and functional to 260°C. **Duralectric™** far surpasses the accelerated solar weathering standards under IEC 60068-2-5, and is tested to 56 accelerated days, equivalent to 53 years of solar exposure. Glenair can supply the material in a variety of formats, including blown jacketing, as an extrusion over wire and cable, as an overmolding compound and as a self-vulcanizing repair tape.

Originally qualified to the US navy Mil-PRF-24758A specification, **Duralectric™** is available in standard US Navy haze gray in accordance with Fed Std 595B #26270. Other colors are also standard including black, and Fed Std #3446 Desert Tan. Additional Made-to-Order colors are available. The material has the following performance characteristics:

## GLENAIR **Duralectric™** MATERIAL SPECIFICATIONS

Temperature rating: -70°C to +200°C (with excursions to 260°C)

Halogen free per IEC 60614-1. Less than 5mg of HCl per 1 gm of product tested.

Accelerated Weathering (Solar) per IEC 60068-2-5; 56 days exposure

Flame Resistant per IEC 60614-1; Material does not sustain combustion when the source of flame is removed.

Low Smoke Index per NES 711 (11.75); Minimum standard is 25. The Glenair tested level is 11.75. This makes the material acceptable for interior applications as well as topside.

Smoke Density Class F1 Per NF F 16-101 IAW DIN EN 60695-2-11:2001

Toxicity Index per NES 713 (1.9); Minimum standard is 5. The Glenair tested level is 1.9. This makes the material acceptable for interior applications as well as topside.

Colorable to Fed Std 595B

Markable IAW MIL-PRF-24758A

Oxygen Limiting Index = 45.1 Per EN ISO 4589-2:1999; Minimum is 28.

12 Sec Vertical Burn: (Pass) Per 14CFR Part 25.853(a) amdt 25-116 App F Part 1 (a)(1)(ii)

Fluids Per MIL STD 810F, Method 504

Fuel (MIL-T-83133): JP8

Hydraulic Fluid (MIL H 5606): ROYCO 756

Lube Oil (MIL-L-23699): ROYCO-500

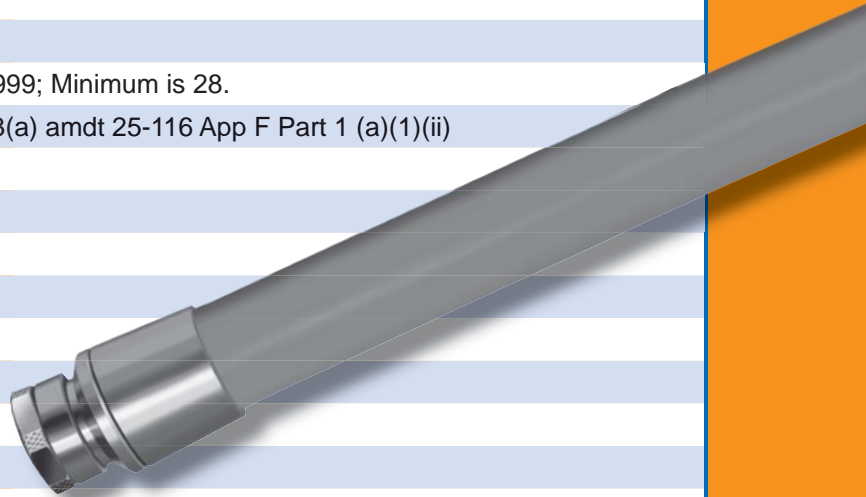
Cleaner (MIL-C-85570): CALLA-855

Solvent (Isopropyl Alcohol): TT-I-735

De Icer (AMS-1432): E36 Runway Deicer

Coolant (MIL-C-87252): Coolanol 25R

Fire Extinguishant Foam: AMEREX AFFF



**MASTER SEAL** Self-Vulcanizing Sealing Tape

GLENAIR PART NO.  
**687-758**

*Duralectric™ material sealing tape designed for temporary repair of cable and conduit. Glenair Master Seal effectively stops water incursion until a permanent repair can be made.*





# A World of Interconnect Solutions

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