

turboflex

THE ULTRA FLEXIBLE RUGGED POWER CABLE



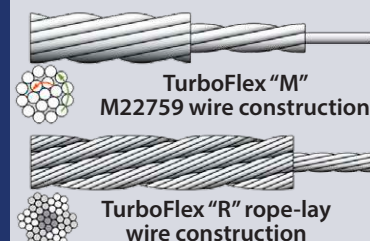
TURNKEY
turboflex
Flexible Cable Assemblies

TurboFlex is an ultra-flexible and rugged power cable solution—ideal for high-voltage electrical distribution and propulsion applications such as battery plant-to-inverter-to-electric motor cables for eVTOL aircraft. Constructed from rope-lay configuration copper or aluminum wire and jacketed with Glenair signature Duraelectric insulation, TurboFlex cables are optimized for use in an ecosystem of Glenair signature contact and connector technologies. Turnkey connectorized or lugged cable assemblies – fully tested and ready for immediate use – provide reliable high-temperature tolerant performance up to 4500 VAC.



Duraelectric™ is the high-performance TurboFlex® jacketing material. Different compounding formulas are optimized for weight savings, radiation resistance, ultra low temperatures, conductivity, and immersion in chemical or caustic fuels. Available in a broad range of colors including safety orange.

STANDARD TURBOFLEX “R” VS. TURBOFLEX “M”



TurboFlex cables are jacketed with Duraelectric insulation, which contributes significantly to the flexibility of the product. Available wire cores include rope-lay (TurboFlex “R”) for maximum flexibility, and M22759 wire (TurboFlex “M”) with the flight-heritage of a mil-spec core and a slightly larger bend radius, but far superior flexibility compared to standard M22759 wire.

Standard
M22759 mil-spec
wire

TurboFlex “M”:
mil-spec core,
Duraelectric
jacket

Ultra-flexible
TurboFlex “R”
rope-lay cable

ULTRA-FLEXIBLE TurboFlex Rugged Power Cable



Rope-lay · stranded-core · copper or aluminum conductor



ULTRA-FLEXIBLE ROPE-LAY AND STRANDED-CORE POWER CABLE FOR
HIGH-POWER ELECTRICAL INTERCONNECT APPLICATIONS

961-004



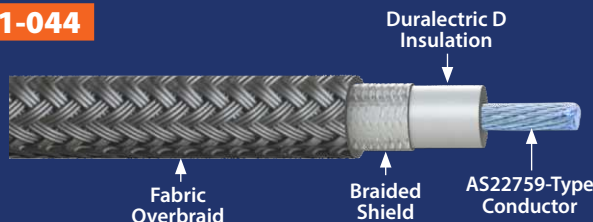
TurboFlex® "R" Copper Core, Duraelectric™ D Insulation, 2000 VAC

967-600



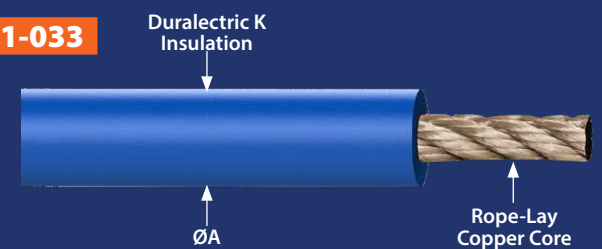
TurboFlex® "M" AS22759-type conductor, Duraelectric™ D Insulation, 725–2875 VAC

961-044



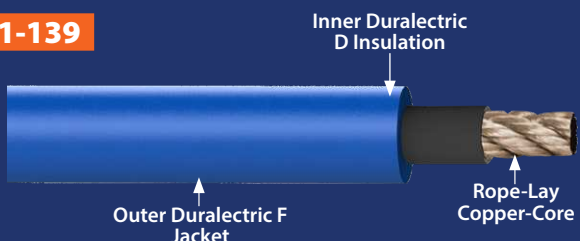
TurboFlex® "M" Copper Core, Duraelectric™ D Insulation, Metallic Braided Shield, Fabric Overbraid 725–2875 VAC

961-033



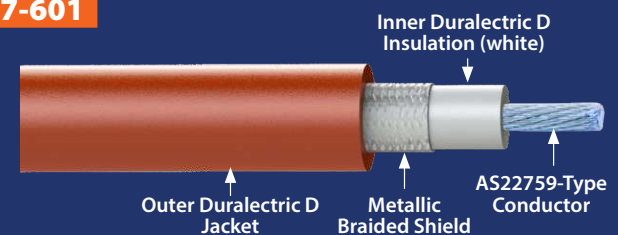
TurboFlex® "R" Copper Core, Duraelectric™ K Insulation, 1000–3000 VAC, -110°C – +200°C

961-139



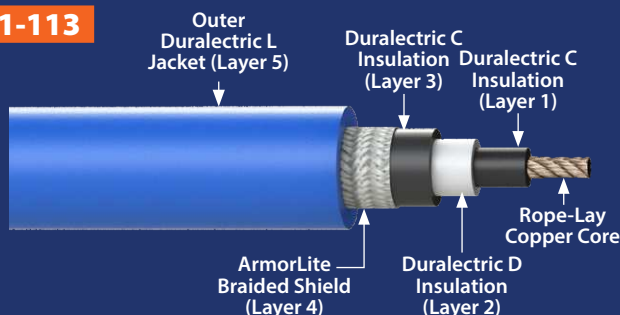
TurboFlex® "R" Copper Core, Dual-layer Duraelectric™ D Insulation/ Duraelectric F Jacket, 1000 VAC

967-601



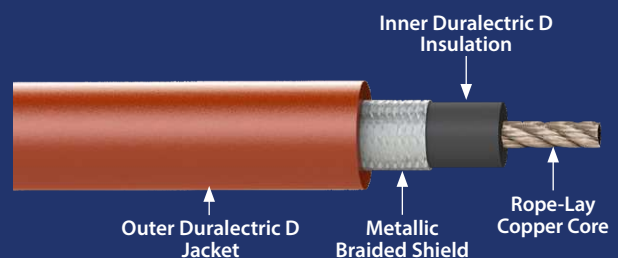
TurboFlex® "M" Copper Core, Dual-Layer Duraelectric™ D Jackets and Metallic Braided Shield, 725–2875 VAC

961-113



TurboFlex® "R" Copper, Triple-Layer Duraelectric™ D/C (HPHV) Insulation, ArmorLite Shield, and Duraelectric™ L Jacket

961-007



TurboFlex® "R" Copper Core, Dual-Layer Duraelectric™ D Jackets and Metallic Braided Shield, 3000 VAC