

TECHNICAL BULLETIN:

STANDARD-FLEX (HY-TREX) Low-Capacitance VFD Shielded Power Cable w/Pairs

Part Number: 70029

Product Scope:

TPC Low Capacitance VFD Cable, 12 AWG/4-Conductors + 16 AWG/2-Pair

■ Type TC-ER, Type FMSC, Type CIC, Type AWM

Design References:

UL 1277 Electrical Power and Control Cables with Optional Fiber-Optic Members

UL 2277 Flexible Motor Supply Cable and Wind Turbine Tray Cable

UL 1581 Standard for Safety

Design Details:

Conductor

Material Soft drawn annealed stranded tinned copper conductors

Power – 12 AWG, 65/30 stranding Pairs – 16 AWG, 26/30 stranding

Insulation

Material Power Conductors – XLPE

Ground Conductor - TPE

Identification Primary Conductors – Black with Alpha-Numeric Identification 1 - 3

Ground Conductor – Green/Yellow
Pair 1 – Black with Alpha-Numeric 5 & 6
Pair 2 – Black with Alpha-Numeric 7 & 8

Shielding

Pairs Aluminum/Mylar wrap

Overall Foil 100% Aluminum/Mylar/Aluminum in contact with Drain and Braid

Overall Braid 85% minimum tinned copper braid shield

Drain Wires 18 AWG drain wires in each shielded pair

Overall 12 AWG flat braided tinned copper

Jacket

Material TPE Compound

Color Black



Design Ratings:

Voltage 600 Volts TC-ER

1000 Volts Type CIC, Flexible Motor Supply Cable

Temperature 90° C Max Conductor Temperature

Flame Rating FT4

Cable O.D. 0.768 Inches Nominal

Cable Weight 335 Lbs./1000 Feet Nominal

Ampacity 30 Amps based on 30° C ambient temperature, 90° C conductor temperature per

NEC Table 310.16

Approvals

UL Type TC-ER, Sunlight Resistant, Oil Resistant II, FT4

FMSC (Flexible Motor Supply Cable)

cUL Type CIC – TC, FT4

CSA AWM I/II A/B, FT4

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