



Variable Frequency Drive Shielded Power 2kV

XLP/RHH/PVC • Copper Tape Shield • UL Type TC-ER₁ Method 3 Color Code



• CONSTRUCTION

Conductor	14 AWG thru 750 kcmil fully annealed bare stranded copper Class B stranding per ASTM B8
Insulation	Flame-retardant Cross-linked Polyethylene (XLPE, RHH/RHW-2) 90° C, VW-1 Color-coded per ICEA Method 3; Individual conductors colored black with conductor number surface printed in contrasting ink
Ground	3 symmetrically placed annealed bare copper ground conductors Class B stranding per ASTM B8 Option: Single full size insulated ground matching conductor size
Tape Shield	5 mil copper tape shield with a minimum overlap of 50%
Jacket Overlap	Flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

• STANDARDS

UL 1277 Type TC-ER, 2000V
UL Type RHH or RHW-2 conductors per UL 44
NFPA 79 Flexible Motor Supply Cable
UL 1581 / UL 2556 VW-1
UL 1685 Vertical Flame Test
IEEE 383
IEEE 1202
ICEA T-29-520 (210,000 BTU/hr)

Made in USA



2000 Volt Type TC-ER VFD power cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, direct burial, aerial supported by a messenger, and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 90°C for normal operation in wet and dry locations, 130°C for emergency overload, and 250°C for short circuit conditions. For uses in Class I, II, and III, Division 2 hazardous locations per NEC Article 501 and 502. Type (TC-ER) per NEC 336.10.

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Stock Code	Conductor Size (AWG)	No. of Conductors	Ground Wire Size (AWG)	Insulation Thickness (in)*	Jacket Thickness (in)*	Cable O.D. (in)*	Net Weight Lbs/1000 ft
14-03VFD-14/3-CU-M3	14	3	3 x 14	0.060	0.060	0.550	208
12-03VFD-14/3-CU-M3	12	3	3 x 14	0.060	0.060	0.59	245
10-03VFD-14/3-CU-M3	10	3	3 x 14	0.080	0.060	0.640	295
08-03VFD-14/3-CU-M3	8	3	3 x 14	0.080	0.060	0.790	415
06-03VFD-12/3-CU-M3	6	3	3 x 12	0.080	0.080	0.91	638
04-03VFD-12/3-CU-M3	4	3	3 x 12	0.080	0.080	0.102	843
02-03VFD-10/3-CU-M3	2	3	3 x 10	0.080	0.080	1.127	1177
1/0-03VFD-10/3-CU-M3	1/0	3	3 x 10	0.095	0.080	1.35	1703
2/0-03VFD-10/3-CU-M3	2/0	3	3 x 10	0.095	0.080	1.45	2028
3/0-03VFD-8/3-CU-M3	3/0	3	3 x 8	0.095	0.080	1.55	2481
4/0-03VFD-8/3-CU-M3	4/0	3	3 x 8	0.095	0.110	1.74	3083
250-03VFD-8/3-CU-M3	250	3	3 x 8	0.110	0.110	1.88	3553
350-03VFD-6/3-CU-M3	350	3	3 x 6	0.110	0.110	2.09	4753
500-03VFD-6/3-CU-M3	500	3	3 x 6	0.115	0.110	2.36	6393
750-03VFD-4/3-CU-M3	750	3	3 x 4	0.125	0.140	2.81	6441

GROUND SIZE MAY VARY. MINIMUM AWG SIZE REFLECTED

*Note: All dimensions and weights are nominal and subject to normal manufacturing variances

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