

VFD-THIN Variable Frequency Drive



VFD-THIN is a flexible, UL/CSA/CE approved, PVC/Nylon insulated, PVC jacketed, shielded, tray cable rated motor supply cable designed for automated systems. The 100% coverage foil and braid shield helps with problems due to voltage spikes, harmonics, electrical interference and power distortions commonly associated with variable frequency drives. **VFD-THIN** can be used to connect alternating current variable frequency drives to alternating current variable drive motors and is TC-ER (tray cable) approved for open wiring (exposed-run). This motor supply cable is also suitable for installations in wet or dry environments and is UV resistant. Can also be used indoor or outdoor and is rated for direct burial.



Construction:

- Fine bare copper strands
- Strands to American class-K as listed below
- Special PVC/nylon core insulation
- Color code VDE-0293 - black & numbered
- Ground wire in outer layer
- Fleece wrapping over cores
- 100% foil and 90% tinned copper braid shield
- Special PVC outer jacket - black (RAL 9005)
- UV resistant and direct burial approved
- Submersible pump approved
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 600/1000v (UL/CSA)
- Working voltage: 1000v (WTTTC)
- Test power voltage: 3000 volts
- Flexing bending radius: 7.5 x Ø
- Temperature range: -25° C to +90° C
- Flame retardant: IEC 60332.1-2, FT-4
- Insulation resistance: 20 MΩ x km

Approvals:

- UL type MTW, NFPA 79 2007
- UL AWM 90 Deg C.
- Class-1, div-2 NEC Art 336,392,501
- UL TC-ER (tray cable exposed run)
- CSA AWM II A/B, FT4 - 90 Deg C.
- c(UL) CIC/TC, FT-4
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	LBS/MFT
18 AWG (19/30) 1,00mm ² 9121804	4	0.419" / 10.6mm	35	115
16 AWG (26/30) 1,50mm ² 9121604	4	0.478" / 12.1mm	49	128
14 AWG (41/30) 2,50mm ² 9121404	4	0.515" / 13.0mm	76	137
12 AWG (65/30) 4,0mm ² 9121204	4	0.569" / 14.4mm	124	186
10 AWG (105/30) 6,0mm ² 9121004	4	0.698" / 17.7mm	176	276
8 AWG (168/30) 10,0mm ² 9120804	4	0.881" / 22.3mm	285	455
6 AWG (266/30) 16,0mm ² 9120604	4	1.019" / 25.9mm	439	624
4 AWG (413/30) 25,0mm ² 9120404	4	1.211" / 30.8mm	610	926
2 AWG (665/30) 35,0mm ² 9120204	4	1.419" / 36.0mm	941	1346