Screened power & VFD / motor supply cables

FD-VFD 600/1000V Drag Chain

FD-VFD 600/1000 V Drag-Chain Flexible VFD Cable

Continuous-flex Class 5/6 PUR/TPE shielded VFD energy-chain cable

UL AWM 21223 / 1000 V | **U0/U 600/1000 V · 4 kV AC** | **Halogen-free PUR**

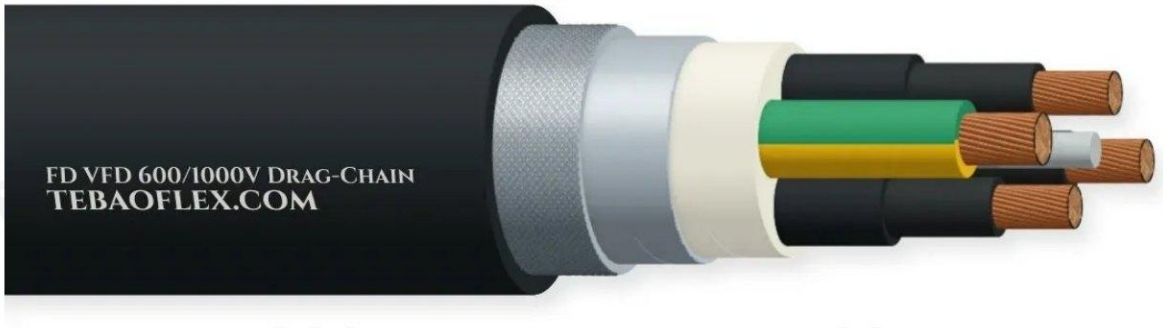


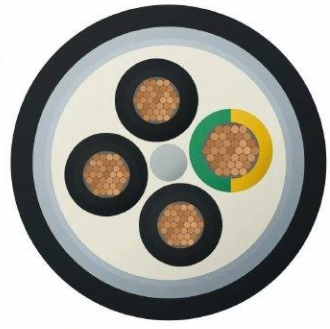
Application

FD-VFD 600/1000 V Drag Chain combines extra-flexible bare copper conductors, low-capacitance PP/XLPE insulation, ≥ 85% tinned copper braid, and a wear-resistant black PUR/TPE sheath for dynamic VFD carriers.

Typical uses: Variable frequency drive (VFD) motor bays, Industrial pumps, fans & compressor skids, Process plants, oil & gas & HVAC systems, Heavy manufacturing & plant MCC feeders

Construction





Cross-section, not to scale

1	**Conductor**	IEC 60228 Class 5 flexible bare annealed copper · IEC 60228 Class 5
2	**Core insulation**	Low-capacitance polyolefin / TPE dielectric · UL AWM 21223 / 1000 V
3	**Core assembly & separator**	Concentric cabled assembly with low-friction fleece or polyester binder tape · UL AWM 21223 / 1000 V
4	**EMC metallic screen**	Low-friction fleece wrap + ≥ 85% tinned copper braid shield · EMC ≥ 85% / 100% foil
5	**Outer sheath**	Black oil-, coolant- & abrasion-resistant PUR/TPE sheath · UL Oil Res I/II

Technical data

Typical values

Rated voltage U0/U	600/1000 V	AC test voltage	4 kV AC / 5 min
Conductor class	IEC 60228 Class 5 bare Cu	EMC screen	Low-friction fleece wrap + ≥ 85% tinned
Insulation resistance	≥ 1,000 MΩ·km at 20 °C	Temp. range (fixed)	-40 °C to +90 °C
Temp. range (flexing)	-30 °C to +80 °C	Short-circuit temp.	+160 °C (5 s)
Min. bending radius	7.5 × OD (flexing)	Flame retardance	UL Oil Res I/II
Oil & chemical perf.	IEC 60332-1-2 Flame	Environmental / EMC	5M+ Drag-Chain Cycles
Outer sheath	Black oil-, coolant- & abrasion-resistant		

Sizes

13 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

	Cores × mm²	Outer Ø ≈ mm	Max. R20 Ω/km	Copper index kg/km	Weight ≈ kg/km	Min. bend R 7.5×D mm
☐	4G1.5	11.6	13.300	84	191	87
☐	4G2.5	12.8	7.980	123	259	96
☐	4G4	14.1	4.950	181	355	106
☐	4G6	15.5	3.300	257	478	116
☐	4G10	18.7	1.910	411	743	140
☐	4G16	22.4	1.210	638	1,128	168
☐	4G25	25.5	0.780	974	1,650	191
☐	4G35	29.4	0.554	1,348	2,261	220
☐	4G50	33.1	0.386	1,903	3,115	248
☐	4G70	38.3	0.272	2,644	4,294	287
☐	4G95	44.2	0.206	3,568	5,778	332
☐	4G120	48.0	0.161	4,488	7,173	360
☐	4G185	56.3	0.106	6,875	10,765	422

- Max. conductor DC resistance R20 at 20 °C per IEC 60228 (bare copper).
- Minimum bending radius calculated at 7.5 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- UL AWM 21223 / 1000 V
- CSA AWM I/II A/B FT1
- IEC 60228 Class 6
- EN 10204 3.1 Factory Test Certificate
- CE, RoHS 2 (2011/65/EU) & REACH

Certifications

Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone
+86 185 9591 3361

Email
info@tebaoflex.com

Web
tebaoflex.com/cables/fd-vfd-600-1000v-drag-chain-vfd-cable

Typical values for this cable type, based on UL AWM 21223 / 1000 V · CSA AWM I/II A/B FT1 · IEC 60228 Class 6. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.