Screened power & VFD / motor supply cables

6001x 600/1000V Flex VFD

6001x 600/1000 V High-Vis Flexible VFD Cable

Yellow TPE 600/1000 V TC-ER flexible VFD motor supply cable

UL 1277 Type TC-ER | U0/U 600/1000 V · 4 kV AC | EMC Screened

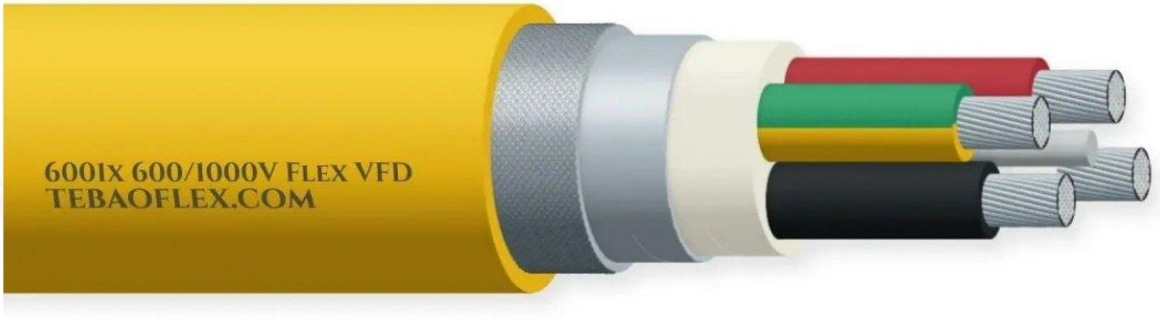


Application

6001x 600/1000 V Flex VFD features fine-stranded tinned copper conductors, thermoset XLPE insulation, dual foil/braid EMC screening, and a high-visibility yellow oil-resistant TPE jacket for industrial automation.

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	ASTM B172 Class K flexible tinned annealed copper · ASTM B172 Class K / UL 1277
2	Core insulation	Low-capacitance thermoset XLPE (90 °C wet/dry) · UL 1277 Type TC-ER
3	Core assembly & separator	Concentric cabled assembly with low-friction fleece or polyester binder tape · UL 1277 Type TC-ER
4	EMC metallic screen	100% foil + ≥ 85% tinned copper braid shield · EMC ≥ 85% / 100% foil
5	Outer sheath	High-visibility yellow oil- & abrasion-resistant TPE jacket · 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	ASTM B172 Class K tinned Cu	EMC screen	100% foil + ≥ 85% tinned copper braid shield
Insulation resistance	≥ 1,000 MΩ·km at 20 °C	Temp. range (fixed)	-40 °C to +90 °C
Temp. range (flexing)	-30 °C to +90 °C	Short-circuit temp.	+250 °C (5 s)
Min. bending radius	8 × OD (flexing)	Flame retardance	UL Oil Res I/II
Oil & chemical perf.	Cold Flex -40 °C	Environmental / EMC	Sunlight Resistant
Outer sheath	High-visibility yellow oil- &		

Sizes

10 standard constructions

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

Cores × AWG	Outer Ø ≈ mm	Max. R20 Ω/km	Copper index kg/km	Weight ≈ kg/km	Min. bend R 8×D mm
☐ 4×14 AWG	12.9	9.070	112	244	103
☐ 4×12 AWG	14.2	5.710	161	328	114
☐ 4×10 AWG	15.7	3.590	236	450	126
☐ 4×8 AWG	19.4	2.260	361	688	155
☐ 4×6 AWG	21.9	1.420	548	988	175
☐ 4×4 AWG	26.0	0.892	849	1,489	208
☐ 4×2 AWG	31.1	0.561	1,317	2,259	249
☐ 4×1/0 AWG	35.9	0.353	2,059	3,393	287
☐ 4×2/0 AWG	38.8	0.280	2,575	4,178	310
☐ 4×4/0 AWG	45.7	0.176	4,051	6,399	366

- Max. conductor DC resistance R20 at 20 °C per ASTM B172 / B8 (tinned copper).
- Minimum bending radius calculated at 8 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- UL 1277 Type TC-ER
- UL 2277 Type WTTC
- CSA AWM I/II A/B FT4
- 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/6001x-600-1000v-yellow-tpe-flex-vfd-cable

Typical values for this cable type, based on UL 1277 Type TC-ER · UL 2277 Type WTTC · CSA AWM I/II A/B FT4. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.