Screened power & VFD / motor supply cables

A219 2kV RHW-2 3C+3G VFD

A219 2 kV RHW-2 3C+3G Symmetrical VFD Cable

Class K tinned Cu 2 kV RHW-2 / WTTC VFD cable



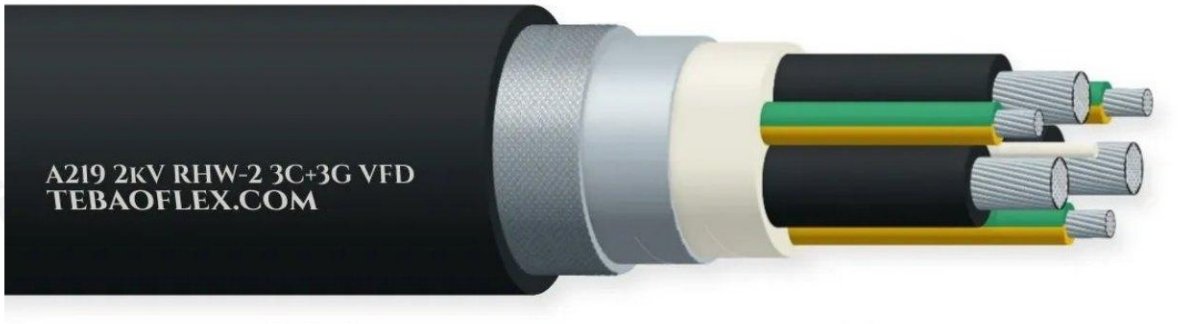
UL TC-ER 2 kV · WTTC 1 kV | **Class K Tinned Cu · RHW-2** | **Al/PET + ≥ 85% TCWB · Oil-Res PVC**

Application

Flexible 2,000 V UL Type TC-ER / RHW-2 and 1,000 V WTTC symmetrical 3C+3G VFD cable with Class K tinned copper conductors, thick-wall 90 °C XLPE insulation, Al/PET plus ≥ 85% TCWB shield, and oil-resistant PVC jacket.

Typical uses: Industrial automation & OEM machines, Wind turbine nacelles & towers (WTTC), Food, beverage & washdown plants, Pulp, paper & heavy manufacturing, North American NEC Class I Div 2 trays

Construction





Cross-section, not to scale

1	**Conductor**	Class K fine-wire stranded tinned annealed copper · ASTM B33 / B172 Class K
2	**Phase & earth insulation**	2 kV thick-wall thermoset RHW-2 XLPE (Black w/ white numbers) · UL 44 RHW-2 + 3 × GNYE insulated grounds
3	**Core wrap**	Non-woven polyester core wrap over 3C+3G bundle
4	**Foil EMI shield**	Aluminium/polyester laminate foil shield (100% coverage)
5	**Braid EMI shield**	Tinned copper wire braid shield (≥ 85%) + separator tape · Low-impedance 360° EMC shield
6	**Outer jacket**	Black easy-strip oil- & washdown-resistant PVC (RAL 9005) · UL 1277 Oil Res I/II · Sunlight Resistant

Technical data

Typical values

Rated voltage	2,000 V TC-ER/RHW-2 · 1,000 V WTTC	**Conductor class**	ASTM B172 Class K tinned copper
Dual EMI shield	100% Al/PET foil + ≥ 85% TCWB	**Max. conductor temp.**	+90 °C dry or wet (RHW-2)
Ambient temp. (fixed)	−40 °C to +90 °C	**Min. bending radius**	6 × OD (Class K flexible)
Flame test	UL 1685 / IEEE 1202 / CSA FT4	**Oil & UV ratings**	Oil Res I/II · Sunlight · Direct Burial
Hazardous locations	NEC Class I Div 2 / NFPA 79		

Sizes

11 standard constructions

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

Phase + 3× GN YE (AWG)	Outer Ø ≈ mm	Max. R20 Ω/km	Copper index kg/km	Weight ≈ kg/km	Min. bend R 6×D mm
☐ 3×6 AWG + 3×12 AWG	23.0	1.420	536	1,072	138
☐ 3×4 AWG + 3×12 AWG	26.7	0.892	766	1,500	160
☐ 3×2 AWG + 3×10 AWG	31.1	0.561	1,176	2,210	187
☐ 3×1 AWG + 3×8 AWG	33.1	0.445	1,509	2,729	199
☐ 3×1/0 AWG + 3×6 AWG	35.3	0.353	1,957	3,410	212
☐ 3×2/0 AWG + 3×6 AWG	37.8	0.280	2,348	4,043	227
☐ 3×3/0 AWG + 3×4 AWG	41.3	0.222	3,060	5,154	248
☐ 3×4/0 AWG + 3×4 AWG	44.5	0.176	3,680	6,146	267
☐ 3×250 kcmil + 3×4 AWG	48.6	0.149	4,230	7,128	292
☐ 3×350 kcmil + 3×2 AWG	54.3	0.107	5,979	9,789	326
☐ 3×500 kcmil + 3×2 AWG	61.5	0.075	8,093	13,096	369

- Conductor max. DC resistance R20 follows ASTM B33 / B172 Class K fine-wire tinned copper at 20 °C.
- Dual-rated 2,000 V UL Type TC-ER (RHW-2) and 1,000 V UL 2277 WTTC for industrial trays, exposed runs, and wind turbines.

Standards and approvals

- ✓ UL 1277 Type TC-ER (2,000 V) · UL 44 RHW-2
- ✓ UL 2277 WTTC (1,000 V) · NFPA 79 Compliant
- ✓ CSA C22.2 No. 230/239 · FT4 / IEEE 1202 · Oil Res I/II

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/a219-2kv-rhw-2-3c-3g-symmetrical-tc-er-vfd-cable

Typical values for this cable type, based on UL 1277 Type TC-ER · UL 44 RHW-2 · UL 2277 WTTC · CSA C22.2. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.