UL 1422 WW-28 AWG AgCu/PVDF

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28 AWG Silver-Plated Copper PVDF (Kynar) Wire-Wrap Hook-Up Wire

UL 1422 / MIL-DTL-81822 · 300 V · −60…+105 °C industrial WW-28 AWG AgCu/PVDF



UL 1422 / MIL-DTL-81822 | **300 V** | **−60…+105 °C**

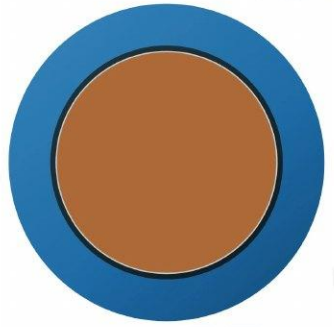
Application

28 AWG Silver-Plated Copper PVDF (Kynar) Wire-Wrap Hook-Up Wire (WW-28 AWG AgCu/PVDF) engineered to UL 1422 / MIL-DTL-81822 for 300 V service across −60…+105 °C, featuring stranded silver-plated copper conductor and pvdf pvdf fluoropolymer insulation

Typical uses: Avionics Backplanes & Rack Interconnects, High-Density Flight & Defense Electronics, Precision Test & Measurement Instrumentation, Compact Embedded Computing Systems, Automated Assembly & Packaging Lines

Construction





Cross-section, not to scale

1	**Stranded silver-plated copper conductor**	UL 1422 / MIL-DTL-81822
2	**PVDF PVDF fluoropolymer insulation**	UL 1422 / MIL-DTL-81822

Technical data

Typical values

Rated voltage / duty	300 V (UL 1422 / MIL-DTL-81822)	**Conductor construction**	Stranded silver-plated copper conductor — High-conductivity silver-plated copper conductor per UL 1422 / MIL-DTL-81822
Primary insulation / dielectric	PVDF PVDF fluoropolymer insulation — Extruded PVDF PVDF fluoropolymer insulation dielectric (continuous layer)	**Continuous operating temperature**	−60…+105 °C per UL 1422 / MIL-DTL-81822
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s adiabatic limit depending on dielectric class)	**Minimum installation temperature**	−5 °C (thermoplastic) / −25 °C (cross-linked or elastomer) / −40 °C (metallic)
Outer protection / covering	PVDF PVDF fluoropolymer insulation — Extruded PVDF PVDF fluoropolymer insulation dielectric (continuous layer)	**Minimum bending radius**	4 × OD (installed / static routing)
Layer count & geometry	2 concentric/structural layers verified by cross-section inspection	**Environmental & chemical durability**	Engineered for industrial service in accordance with UL 1422 / MIL-DTL-81822
RoHS & REACH compliance	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant	**Standards**	UL 1422 / MIL-DTL-81822

Sizes

12 standard constructions

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

Order designation	Configuration	Outer Ø ≈ mm	Weight ≈ kg/km	Min. bend R fixed mm
WW-28 AWG AgCu/PVDF Standard Production Schedule (300 V · −60…+105 °C) 12 sizes				
☐ **WW-28 AWG AgCu/PVDF 3G1.5**	**3 × 1.5 mm²**	**8.4**	**105**	**68**
☐ **WW-28 AWG AgCu/PVDF 4G1.5**	**4 × 1.5 mm²**	**9.2**	**128**	**74**
☐ **WW-28 AWG AgCu/PVDF 5G1.5**	**5 × 1.5 mm²**	**10.1**	**156**	**81**
☐ **WW-28 AWG AgCu/PVDF 3G2.5**	**3 × 2.5 mm²**	**9.8**	**148**	**78**
☐ **WW-28 AWG AgCu/PVDF 4G2.5**	**4 × 2.5 mm²**	**10.8**	**186**	**86**
☐ **WW-28 AWG AgCu/PVDF 5G2.5**	**5 × 2.5 mm²**	**11.9**	**228**	**95**
☐ **WW-28 AWG AgCu/PVDF 4G4**	**4 × 4.0 mm²**	**12.6**	**268**	**101**
☐ **WW-28 AWG AgCu/PVDF 4G6**	**4 × 6.0 mm²**	**14.2**	**365**	**114**
☐ **WW-28 AWG AgCu/PVDF 4G10**	**4 × 10 mm²**	**17.5**	**580**	**140**
☐ **WW-28 AWG AgCu/PVDF 4G16**	**4 × 16 mm²**	**20.4**	**845**	**163**
☐ **WW-28 AWG AgCu/PVDF 4G25**	**4 × 25 mm²**	**24.8**	**1,290**	**198**
☐ **WW-28 AWG AgCu/PVDF 4G35**	**4 × 35 mm²**	**27.9**	**1,710**	**223**

– Single-core and multi-core sizes from 0.5 mm² up to 630 mm² (or AWG/kcmil) available per UL 1422 / MIL-DTL-81822.

Conductor resistance & current-carrying capacity

8 sizes

Cross-section	Max. DC R_{20} Ω/km	Current in air A (30 °C) ≈	Voltage drop mV/A·m
1.5 mm² (AWG 16)	**13.30**	**18**	**29.0**
2.5 mm² (AWG 14)	**7.98**	**26**	**17.5**
4.0 mm² (AWG 12)	**4.95**	**34**	**10.9**
6.0 mm² (AWG 10)	**3.30**	**44**	**7.3**
10 mm² (AWG 8)	**1.91**	**61**	**4.2**
16 mm² (AWG 6)	**1.21**	**82**	**2.7**
25 mm² (AWG 4)	**0.78**	**108**	**1.7**
35 mm² (AWG 2)	**0.55**	**135**	**1.2**

– Current ratings are for 3 loaded conductors at 30 °C ambient in free air/tray per IEC 60364-5-52 / NEC.

Standards and approvals

- UL 1422 Compliant
- EN 10204 3.1 Routine 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/ww-28-awg-agcu-pvdf-kynar-wire-wrap-hook-up-wire

Typical values for this cable type, based on UL 1422 / MIL-DTL-81822. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.