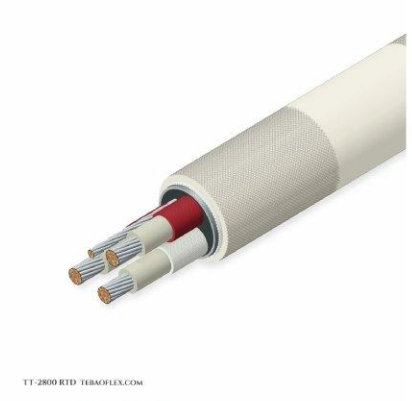
530 °C mica-glass nickel-plated copper RTD cable

TT-2800 RTD

600 V 530 °C Mica-Glass Screened RTD Cable

IEC 60751 / UL 5128 · 600 V · −60…+530 °C 3×18 AWG nickel-plated copper RTD sensor cable

600 V / +530 °C | **3×18 AWG RTD** | **Mica + Fiberglass**



Application

TT-2800 RTD 600 V +530 °C three-wire RTD sensor cable featuring 3 × 18 AWG 2% nickel-plated copper conductors, mica tape plus color-coded fiberglass core insulation, NPC braid screen with drain wire, PTFE barrier tape and a woven fiberglass jacket.

Typical uses: Steelworks Blast Furnaces, Coke Ovens & Continuous Casters, Glass Melting Furnaces, Ceramic Kilns & Heat-Treat Ovens, Petrochemical Reformers, Boilers & Exhaust Gas Ducts, Aluminium Smelting Cells & Foundry Temperature Loops

Construction



TT-2800 RTD TEBAOFLEX.COM



Cross-section, not to scale

1	RTD Conductors (3x18 AWG)	IEC 60751 / UL AWM 5128
2	Composite Core Insulation	IEC 60751 / UL AWM 5128
3	Drain Wire & Overall Shield	IEC 60751 / UL AWM 5128
4	Dielectric Barrier Tape	IEC 60751 / UL AWM 5128
5	Braided Outer Jacket	IEC 60751 / UL AWM 5128

Technical data

Typical values

Rated voltage / transmission duty	600 V (IEC 60751 / UL AWM 5128)	**Core / conductor construction**	RTD Conductors (3x18 AWG) — Three 18 AWG (0.82 mm²) finely stranded 2% nickel-plated copper conductors engineered for 530 °C (986 °F) three-wire RTD bridge compensation
Primary dielectric / insulation	Composite Core Insulation — Lapped phlogopite mica dielectric tapes covered with color-coded woven fiberglass braid (Red / Red / White per IEC/ANSI RTD coding)	**Continuous operating temperature**	−60...+530 °C (rated operating envelope)
Storage & transport temperature	−40...+80 °C on export drum or reel	**Outer protection / sheath**	Braided Outer Jacket — Heavy-duty high-temperature treated woven fiberglass outer braid jacket resistant to radiant heat, molten splash, and abrasion
Minimum bending radius	8 × OD	**Structural layer count**	5 concentric functional layers
Environmental & chemical resistance	Industrial moisture, oils and mechanical wear per IEC 60751 / UL AWM 5128	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	IEC 60751 / UL AWM 5128		

Sizes

4 standard constructions

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

Order designation	Configuration	Core / stranding	Outer Ø ≈ mm	Weight ≈ kg/km	Tensile load kN ≈	Min. bend R mm
TT-2800 RTD Construction Schedule (−60...+530 °C) 4 sizes						
☐ TT-2800 RTD 3×20 AWG Screened	3 × 20 AWG (0.56 mm²) RTD	19/32 AWG 2% NPC + NPC braid	6.4	62	0.4	52
☐ TT-2800 RTD 3×18 AWG Screened	3 × 18 AWG (0.89 mm²) RTD	19/30 AWG 2% NPC + NPC braid	7.4	86	0.6	60
☐ TT-2800 RTD 4×18 AWG Screened	4 × 18 AWG (0.89 mm²) RTD	19/30 AWG 2% NPC + NPC braid	8.2	108	0.8	66
☐ TT-2800 RTD 3×16 AWG Screened	3 × 16 AWG (1.34 mm²) RTD	26/30 AWG 2% NPC + NPC braid	8.6	118	0.9	70

– Custom core counts, cross-sections, sheath colours and factory-tested cut lengths available per IEC 60751 / UL AWM 5128.

Electrical, optical & thermal parameters

4 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Capacity	Operating temp.
3 × 20 AWG (3-Wire RTD)	33.80	600 V / Pt100 3-wire loop	−60...+530 °C
3 × 18 AWG (3-Wire RTD)	21.40	600 V / Pt100 3-wire loop	−60...+530 °C
4 × 18 AWG (4-Wire RTD)	21.40	600 V / Pt100 4-wire loop	−60...+530 °C
3 × 16 AWG (3-Wire RTD)	14.20	600 V / Pt100 long-run loop	−60...+530 °C

– Every production length undergoes routine conductor DC resistance, high-voltage dielectric and dimensional verification.

Standards and approvals

- IEC 60751 Compliant
- 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/tt-2800-rtd-600v-530c-mica-glass-nickel-plated-copper-rtd-cable

Typical values for this cable type, based on IEC 60751 / UL AWM 5128. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.