Instrumentation & sensor cables

9409 300V PLTC / CMG

1-Pair 18 AWG Process Instrumentation Cable

UL 13 PLTC / UL 444 CMG · 300 V · −30…+105 °C · Min. bend 8 × OD

UL 13 PLTC / UL 444 CMG | 300 V



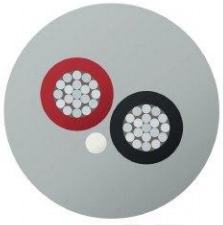
Application

UL 13 PLTC / UL 2250 ITC / CMG FT4 (300 V, -30 to +105 °C) 1-pair 18 AWG (16×30) tinned copper unshielded tray instrumentation cable for 4–20 mA and HART loops.

Typical uses: Industrial automation & control cabinets, Inverter-fed motor drive systems, Process instrumentation & oil/gas skids, Machine tools & robotic cells, Data centers, stadiums & broadcast facilities

Construction





Cross-section, not to scale

1	1 Twisted Pair (18 AWG Tinned Copper)	16×30 AWG Stranded Tinned Copper Conductors
2	105 °C Flame-Retardant PVC Insulation	Black & Red Color-Coded 0.41mm PVC Core Insulation
3	Precision Short-Lay Pair Twist + Ripcord	50.8mm Twist Lay for Balanced CMRR + Nylon Ripcord
4	Chrome Grey Sunlight-Resistant PVC Jacket	UL 13 PLTC / CMG / ITC Rated Outer Sheath (5.64 mm OD)

Technical data

Typical values

Nominal / reference voltage	300 V	Conductor & core insulation	16×30 AWG Stranded Tinned Copper Conductors · Black & Red Color-Coded 0.41mm PVC Core Insulation
Routine dielectric / continuity test	100% factory drum spark & continuity verified	Operating temperature range	−30...+105 °C
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s conductor thermal limit)	Flame & fire performance	UL 13 PLTC / UL 444 CMG
Minimum bending radius	8 × OD	Screening / armour architecture	Unshielded multi-core construction · mechanical protection via outer jacket
Outer sheath material & colour	UL 13 PLTC / CMG / ITC Rated Outer Sheath (5.64 mm OD)	Standards	UL 13 PLTC / UL 2250 ITC / UL 444 CMG / CSA C22.2 No. 214 FT4 / IEEE 1202

Sizes

3 standard constructions

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

Part designation	Configuration	Conductor & shield	Insulation / wall	Outer sheath	Outer diameter mm	Min. bend radius mm	Max. conductor resistance @ 20 °C Ω/km	Copper weight kg/km	Cable weight kg/km	Key electrical / optical rating
9409 300V PLTC / CMG 3 sizes										
☐ 9409 1 Pair × 18 AWG (16×30) PLTC	1 × 2 × 18 AWG (0.82 mm²)	16×30 AWG Tinned Cu + 105 °C PVC + Ripcord	Black & Red Color-Coded 0.41mm PVC Core Insulation	Industrial PVC	5.6	45	21.90	15.8	42	300 V · 88.6 pF/m (27 pF/ft) · 0.56 µH/m
☐ 9409-2P 2 Pairs × 18 AWG (16×30) PLTC	2 × 2 × 18 AWG (0.82 mm²)	16×30 AWG Tinned Cu + 105 °C PVC + Ripcord	Black & Red Color-Coded 0.41mm PVC Core Insulation	Industrial PVC	8.2	65	21.90	31.6	78	300 V · 88.6 pF/m (27 pF/ft) · 0.56 µH/m
☐ 9409-4P 4 Pairs × 18 AWG (16×30) PLTC	4 × 2 × 18 AWG (0.82 mm²)	16×30 AWG Tinned Cu + 105 °C PVC + Ripcord	Black & Red Color-Coded 0.41mm PVC Core Insulation	Industrial PVC	9.9	80	21.90	63.2	134	300 V · 88.6 pF/m (27 pF/ft) · 0.56 µH/m

– Dimensions and weights are nominal manufacturing targets subject to standard production tolerances.

Standards and approvals

- ✓ UL 13 PLTC / UL 444 CMG 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/9409-300v-pltc-cmg-1-pair-18-awg-unshielded-instrumentation-cable**

Typical values for this cable type, based on Reference specification per UL 13 PLTC / UL 444 CMG (9409 300V PLTC / CMG). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.