Industrial data, fieldbus & RF cables

3079A 150Ω PROFIBUS DP PLTC

3079A 150 Ohm 22 AWG PROFIBUS DP PLTC Shielded Fieldbus Cable

IEC 61158-2 PROFIBUS DP / UL 13 PLTC · 300 V · −30...+75 °C · Min. bend 10 × OD

IEC 61158-2 PROFIBUS DP / UL 13 PLTC | 300 V

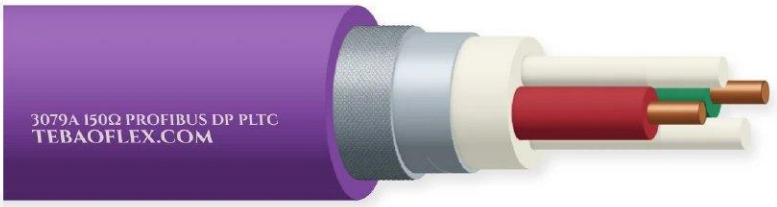


Application

IEC 61158-2 / UL 13 PLTC / CMG (150 Ω, 300 V, -30 to +75 °C) 1-pair 22 AWG solid bare copper foil and 65% tinned copper braid shielded PROFIBUS DP fieldbus cable.

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 Pair 22 AWG Solid Bare Copper	0.64 mm Solid Bare Copper Conductors (1 Pair)
2	Foam-Skin Polyethylene Insulation	Red & Green Color-Coded Low-Loss Foam-Skin PE
3	100% Aluminum/Polyester Foil + Drain Wire	Z-Fold Foil Shield + 22 AWG Tinned Copper Drain
4	65% Tinned Copper Wire Braid Shield	Overall Braided Tinned Copper EMC Screen
5	Sunlight & Oil Resistant Violet PVC Jacket	UL PLTC / CMG Violet PVC Outer Sheath (8.00 mm OD)

Technical data

Typical values

Nominal / reference voltage	300 V	Conductor & core insulation	0.64 mm Solid Bare Copper Conductors (1 Pair) · Red & Green Color-Coded Low-Loss Foam-Skin PE
Routine dielectric / continuity test	100% factory drum spark & continuity verified	Operating temperature range	−30…+75 °C
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s conductor thermal limit)	Flame & fire performance	IEC 61158-2 PROFIBUS DP / UL 13 PLTC
Minimum bending radius	10 × OD	Screening / armour architecture	Z-Fold Foil Shield + 22 AWG Tinned Copper Drain · Overall Braided Tinned Copper EMC Screen
Outer sheath material & colour	UL PLTC / CMG Violet PVC Outer Sheath (8.00 mm OD)	Standards	IEC 61158-2 / EN 50170 / UL 13 PLTC / UL 444 CMG / CSA CMG FT4

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 ra
3079A 150Ω PROFIBUS DP PLTC 3 sizes										
☐ 3079A 1 Pair × 22 AWG Solid BC (150 Ω)	1 × 2 × 22 AWG (0.64 mm Solid BC)	Solid Bare Cu + Foam-Skin PE + Foil/65% TCWB	Red & Green Color-Coded Low-Loss Foam-Skin PE	Industrial PVC	8.0	80	55.00	26.5	76	150 ± 15 Ω (3–20 MHz) · 2
☐ 3079A-FLEX 1 Pair × 22 AWG (7×30) Stranded	1 × 2 × 22 AWG (7×30 AWG Stranded)	7×30 AWG Bare Cu + Foam PE + Foil/65% TCWB	Red & Green Color-Coded Low-Loss Foam-Skin PE	Industrial PVC	8.1	81	57.50	27.0	78	150 ± 15 Ω (3–20 MHz) · 2
☐ 3079A-AIA 1 Pair × 22 AWG Armored PLTC	1 × 2 × 22 AWG + Aluminum Interlocked Armor	Solid Bare Cu + Foam PE + Foil/TCWB + AIA	Red & Green Color-Coded Low-Loss Foam-Skin PE	Industrial PVC	13.8	138	55.00	26.5	195	150 ± 15 Ω (3–20 MHz) · 2

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

Standards and approvals

- ✓ IEC 61158-2 PROFIBUS DP / UL 13 PLTC 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/3079a-150-ohm-profibus-dp-pltc-shielded-fieldbus-cable**

Typical values for this cable type, based on Reference specification per IEC 61158-2 PROFIBUS DP / UL 13 PLTC (3079A 150Ω PROFIBUS DP PLTC). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.