



ISO 4141 / ISO 6722 Multicore Commercial Vehicle & Trailer Cables

Multicore Trailer Cable

60 V DC ISO 4141-3 / ADR 7-core, 13-core & 15-core + 5/7-core ABS/EBS truck-trailer cable



60 V DC ISO 4141-3 / ADR

7 / 13 / 15-Pin + 5/7-Pin EBS

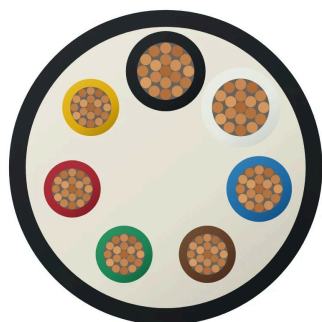
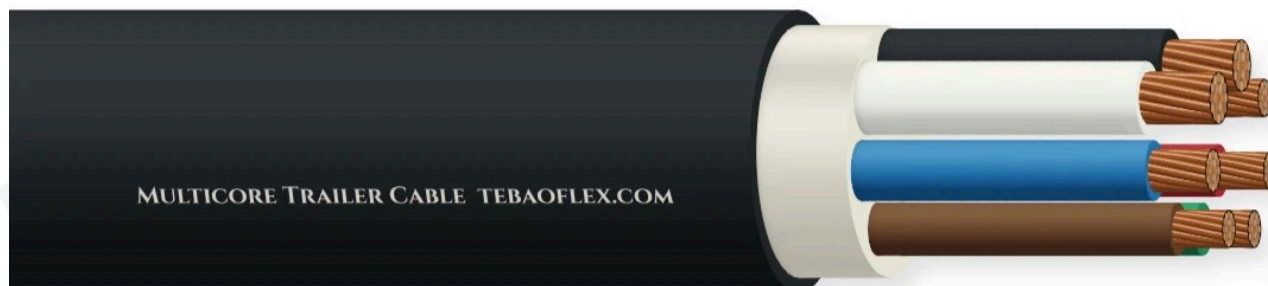
PVC (FLRYY) or PUR (FLRY11Y) Jacket

Application

Multicore Trailer Cable is a heavy-duty 12 V / 24 V tractor-to-trailer and semi-trailer interconnecting cable engineered to ISO 4141-3, ISO 6722-1 and ADR dangerous-goods transport rules. Available with either weatherproof PVC (FLRYY) or cut- and coil-resistan

Typical uses: Heavy semi-trailers & drawbars, ADR dangerous-goods road tankers, ISO 7638 ABS / EBS brake links, 13-pin caravan & utility trailers, Agricultural tractors & implements

Construction



Cross-section, not to scale

1	Fine-stranded bare copper (Type B)	ISO 6722-1
2	ISO 4141 colour-coded FLRY cores	ISO 4141-3
3	Core binder / separator wrap	ISO 4141-3
4	Heavy-duty PVC (Y) or PUR (11Y) jacket	ISO 4141-3

Technical data

Typical values

Rated voltage	60 V DC / 25 V AC (12 V and 24 V vehicle systems)	Dielectric withstand test	3.0 kV AC rms for 5 minutes
ISO 11992 CAN pair (7-core EBS)	Twisted 2×1.5 mm ² data pair with controlled lay length	Operating temperature range	-40 °C to +105 °C (FLRY cores) · -40 °C to +85 °C (PUR) / +90 °C (PVC sheath)
Cold bend & coil extension	-40 °C low-temperature flex test without sheath splitting	Core configuration	Mixed cross-sections with enlarged white (pin 31) earth core(s)
Abrasion & tear resistance	PUR (11Y) jacket resists fifth-wheel deck chafing and suzie coil recoil	ADR chemical & fuel resistance	Resists diesel, gasoline, hydraulic oil, battery acid, AdBlue & road salt
Flame retardancy	Self-extinguishing per ISO 6722-1 45° burn test	Standards	ISO 4141-3, ISO 1724, ISO 1185, ISO 11446, ISO 12098 & ISO 7638

Sizes

12 standard constructions

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

Designation	Standard & Core Mix	Application / Connector	Max. OD mm	Copper kg/km	Total mass ≈ kg/km	Min. bend R mm
Multicore Trailer Cable size range 12 sizes						
☐ 7×1.00 mm ²	7 × 1.00 mm ²	ISO 1724 Light Trailer	7.60	67.2	106.0	45.6
☐ 6×1.00 + 1×1.50 mm ²	6×1.0 + 1×1.5 mm ²	ISO 1724 7-Pin 12V	7.90	72.0	114.0	47.4
☐ 7×1.50 mm ²	7 × 1.50 mm ²	ISO 1185 7-Pin 24V	8.80	100.8	148.0	52.8
☐ 6×1.50 + 1×2.50 mm ²	6×1.5 + 1×2.5 mm ²	ISO 1724 / 1185 Heavy Earth	9.30	110.4	165.0	55.8
☐ 5×1.50 + 2×2.50 mm ²	5×1.5 + 2×2.5 mm ²	ISO 1185 / 3731 24V Truck	9.70	120.0	180.0	58.2
☐ 8×1.50 + 5×2.50 mm ²	8×1.5 + 5×2.5 mm ²	ISO 11446 13-Pin Caravan	12.60	235.0	325.0	75.6
☐ 10×1.50 + 3×2.50 mm ²	10×1.5 + 3×2.5 mm ²	ISO 11446 13-Pin Variant	12.20	216.0	302.0	73.2
☐ 12×1.50 + 3×2.50 mm ²	12×1.5 + 3×2.5 mm ²	ISO 12098 15-Pin 24V ADR	13.80	245.0	355.0	82.8
☐ 14×1.50 + 1×2.50 mm ²	14×1.5 + 1×2.5 mm ²	15-Core Auxiliary Chassis	13.40	225.0	330.0	80.4
☐ 2×4.0 + 3×1.5 mm ² (ABS)	5-Core ABS (ISO 7638)	24V ABS Solenoid + Warn	10.80	120.0	195.0	64.8
☐ 2×4.0 + 3×1.5 + 2×1.5 (EBS)	7-Core EBS (ISO 7638)	4.0mm ² Power + CAN Pair	12.20	149.0	240.0	73.2
☐ 2×6.0 + 3×1.5 + 2×1.5 (EBS)	7-Core Heavy EBS	6.0mm ² Power + CAN Pair	13.50	187.0	290.0	81.0

– Dimensions and maximum overall diameters conform to ISO 4141-3 / ISO 1724 / ISO 11446 / ISO 12098 / ISO 7638.

Electrical data

12 sizes

Standard & Core Mix	Max. DC R @ 20 °C mΩ/m	Single wire in air A	In harness bundle A
7 × 1.00 mm ²	18.50	11	9
6×1.0 + 1×1.5 mm ²	18.50	12	9
7 × 1.50 mm ²	12.70	14	11
6×1.5 + 1×2.5 mm ²	12.70	16	12
5×1.5 + 2×2.5 mm ²	12.70	18	14
8×1.5 + 5×2.5 mm ²	12.70	22	17
10×1.5 + 3×2.5 mm ²	12.70	20	16
12×1.5 + 3×2.5 mm ²	12.70	22	17
14×1.5 + 1×2.5 mm ²	12.70	18	14
5-Core ABS (ISO 7638)	4.71	32	25
7-Core EBS (ISO 7638)	4.71	32	25
7-Core Heavy EBS	3.14	42	33

– Current ratings are reference values at +25 °C ambient; derate for multi-wire harness bundles and elevated engine-bay temperatures.

Standards and approvals

- ✓ ISO 4141-3 Multicore Trailer
- ✓ ISO 1724 / ISO 1185 / ISO 11446
- ✓ ISO 12098 (15-Pin 24 V)
- ✓ ISO 7638 (5/7-Pin ABS/EBS)
- ✓ ADR Compliant
- ✓ RoHS 3 & ELV

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

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Email

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Web

tebaoflex.com/cables/multicore-trailer-cable



Typical values for this cable type, based on ISO 4141-3 / ISO 1724 / ISO 11446 / ISO 12098 / ISO 7638. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.