BT CW1128 CW1128-1198

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CW1128/1198 Jelly-Filled SWA Armoured Direct-Buried External

BT CW1128 / CW1198 · 150 V DC · −30…+70 °C industrial CW1128-1198 construction



BT CW1128 / CW1198 | 150 V DC | −30…+70 °C

Application

CW1128/1198 Jelly-Filled SWA Armoured Direct-Buried External Telecom Cable engineered to BT CW1128 / CW1198 for 150 V DC service across −30…+70 °C, featuring stranded copper conductor and black pe outer sheath with minimum bending radius 12 × OD.

Typical uses: 25 kV AC & 1.5/3 kV DC Railway Overhead Catenary, Mainline High-Speed & Urban Metro Transit, Trackside Signalling & Traction Substations, Railway Rolling Stock & Infrastructure, Surface & Underground Mining Substations

Construction





Cross-section, not to scale

1	Stranded copper conductor	BT CW1128 / CW1198
2	Cellular HDPE core insulation	BT CW1128 / CW1198
3	Paper tape and petroleum jelly	BT CW1128 / CW1198
4	Black PE inner sheath	BT CW1128 / CW1198
5	Galvanized steel wire armour	BT CW1128 / CW1198
6	Black PE outer sheath	BT CW1128 / CW1198

Technical data

Typical values

Rated voltage / duty	150 V DC (BT CW1128 / CW1198)	**Conductor construction**	Stranded copper conductor — High-conductivity copper conductor per BT CW1128 / CW1198
Primary insulation / dielectric	Cellular HDPE core insulation — Extruded Cellular HDPE dielectric (individual core / group layer)	**Continuous operating temperature**	−30…+70 °C per BT CW1128 / CW1198
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	Black PE outer sheath — Extruded Black PE outer sheath protective layer (continuous layer)	**Minimum bending radius**	12 × OD (installed / static routing)
Layer count & geometry	6 concentric/structural layers verified by cross-section inspection	**Environmental & chemical durability**	Engineered for industrial service in accordance with BT CW1128 / CW1198
RoHS & REACH compliance	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant	**Standards**	BT CW1128 / CW1198

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
CW1128-1198 Standard Construction Schedule (150 V DC · −30…+70 °C) 12 sizes				
☐ CW1128-1198 1×2×0.5	1×2×0.5 mm²	6.4	58	52
☐ CW1128-1198 2×2×0.5	2×2×0.5 mm²	9.2	112	74
☐ CW1128-1198 4×2×0.5	4×2×0.5 mm²	11.4	176	92
☐ CW1128-1198 8×2×0.5	8×2×0.5 mm²	14.8	295	118
☐ CW1128-1198 12×2×0.5	12×2×0.5 mm²	17.6	420	141
☐ CW1128-1198 1×2×1.0	1×2×1.0 mm²	7.6	86	61
☐ CW1128-1198 2×2×1.0	2×2×1.0 mm²	11.0	168	88
☐ CW1128-1198 4×2×1.0	4×2×1.0 mm²	13.5	264	108
☐ CW1128-1198 8×2×1.0	8×2×1.0 mm²	17.9	465	143
☐ CW1128-1198 1×2×1.5	1×2×1.5 mm²	8.5	114	68
☐ CW1128-1198 4×2×1.5	4×2×1.5 mm²	15.2	348	122
☐ CW1128-1198 12×2×1.5	12×2×1.5 mm²	23.4	860	187

– Additional pair/triad/quad counts (up to 48 pairs) and blue Ex-i intrinsically safe outer sheaths available per BT CW1128 / CW1198.

Electrical parameters by conductor cross-section

5 sizes

Conductor size	Max. DC R_{20} Ω/km	Mutual cap. ≈ nF/km	Inductance ≈ mH/km
0.50 mm² (7/0.30 mm · AWG 20)	39.00	115	0.65
0.75 mm² (7/0.37 mm · AWG 18)	26.00	120	0.62
1.00 mm² (7/0.43 mm · AWG 17)	19.50	125	0.60
1.50 mm² (7/0.53 mm · AWG 16)	13.30	135	0.58
2.50 mm² (7/0.67 mm · AWG 14)	7.98	145	0.55

– L/R ratio ≤ 25 µH/Ω (0.5–1.0 mm²) and ≤ 40 µH/Ω (1.5 mm²) for intrinsically safe Ex-i circuits.

Standards and approvals

- BT CW1128 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/cw1128-1198-jelly-filled-swa-armoured-external-telecom-cable

Typical values for this cable type, based on BT CW1128 / CW1198. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.