



Hook-up & equipment wires

GXL Anti-Capillary

Water-Blocked Automotive Wire

SAE J1128 GXL 125 °C heavy-wall XLPE truck & chassis wire with anti-capillary water block



SAE J1128 GXL · ISO 6722 Class C

Heavy-Duty Wall + Water Block

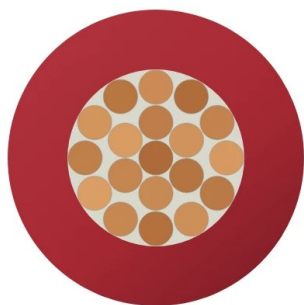
-40...+125 °C · 20-8 AWG

Application

Heavy-duty longitudinally water-blocked automotive and truck primary wire built to SAE J1128 Type GXL and ISO 6722-1 Class C (-40 °C to +125 °C, 60 V DC), combining a thicker 0.58–0.94 mm XLPE wall with an interstitial anti-capillary strand seal (20–8 AWG).

Typical uses: Class 8 heavy-duty truck & trailer frame harnesses, Construction, mining & agricultural off-highway, Diesel aftertreatment (DEF/SCR/NOx) & engine ECUs, Pneumatic ABS / EBS brake modulator leads, Marine, RV & municipal utility vehicle looms

Construction



Cross-section, not to scale

1	Water-blocked 19/37-strand copper	SAE J1128 · ASTM B3 / B33
2	0.58–0.94 mm GXL cross-linked XLPE	SAE J1128 Type GXL · ISO 6722-1 Class C
3	Heavy-duty connector-seal XLPE surface	SAE J1128 · SAE J2030

Technical data

Typical values

Rated voltage	60 V DC / 25 V AC (low-tension commercial vehicle primary)	Dielectric withstand voltage	1.0 kV AC for 1 min (wet) · 5.0 kV spark test
Max. DC conductor resistance (20 °C)	20 AWG: ≤ 34.6 Ω/km · 18 AWG: ≤ 21.8 Ω/km · 16 AWG: ≤ 14.0 Ω/km · 14 AWG: ≤ 8.79 Ω/km · 12 AWG: ≤ 5.56 Ω/km · 10 AWG: ≤ 3.55 Ω/km · 8 AWG: ≤ 2.15 Ω/km	Operating temperature range	−40 °C to +125 °C continuous (ISO 6722-1 Class C)
Short-term overload & solder heat	+150 °C (240 h) · +250 °C short-circuit resist	Nominal insulation wall	20–16 AWG: 0.58 mm (23 mil) · 14 AWG: 0.60 mm · 12 AWG: 0.66 mm · 10 AWG: 0.79 mm · 8 AWG: 0.94 mm
Abrasion & pinch resistance	~45 % thicker XLPE wall than TXL provides markedly higher sandpaper/scrape abrasion cycles on exposed chassis rails	Anti-capillary performance	0 ml longitudinal water transmission across conductor interstices under pressure differential testing
Commercial vehicle fluids	Resists diesel fuel, DEF/AdBlue (32.5 % urea), engine oil, hydraulic fluid, road de-icing brines and steam washing	Flame retardance	Passes SAE J1128 45° burn test and ISO 6722-1 flame propagation test
Standards	SAE J1128 Type GXL (General Purpose Thin-Wall Cross-Linked Polyolefin Insulated)	Standard packing	Heat-treated ISPM-15 timber drums or spools with sealed ends

Sizes

7 standard constructions

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

Order designation	Cores × mm ² / AWG	AWG ≈	Outer Ø min mm	Outer Ø max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm
SAE J1128 GXL 125 °C Anti-Capillary Heavy-Duty Wire (20–8 AWG) 7 sizes							
☐ GXL Anti-Capillary 20 AWG (19/32)	20 AWG (0.50 mm ²)	20	2.0	2.1	5	8	9
☐ GXL Anti-Capillary 18 AWG (19/30)	18 AWG (0.80 mm ²)	18	2.2	2.4	7	12	10
☐ GXL Anti-Capillary 16 AWG (19/29)	16 AWG (1.25 mm ²)	16	2.4	2.6	12	16	11
☐ GXL Anti-Capillary 14 AWG (19/27)	14 AWG (2.00 mm ²)	14	2.9	3.1	19	25	12
☐ GXL Anti-Capillary 12 AWG (19/25)	12 AWG (3.00 mm ²)	12	3.4	3.7	31	39	15
☐ GXL Anti-Capillary 10 AWG (19/23)	10 AWG (5.00 mm ²)	10	4.2	4.5	50	60	18
☐ GXL Anti-Capillary 8 AWG (19/21)	8 AWG (8.00 mm ²)	8	5.2	5.6	80	96	22

– Dimensions and weights are typical values per SAE J1128 Type GXL · ISO 6722-1 Class C (+125 °C). Minimum fixed bending radius shown is 4 × OD.

Electrical & current ratings

7 sizes

Cross-section mm ²	AWG ≈	Max. DC resistance 20 °C, Ω/km	Single wire in air 30 °C, A	Multi-core bundle 30 °C, A
0.52	20	33.2	10	7
0.82	18	23.2	14	11
1.25	16	15.6	19	14
2	14	9.9	26	20
3.31	12	6	36	27
5.26	10	3.75	50	36
8.37	8	2.35	68	48

– Current ratings at 30 °C ambient in free air. Apply temperature and bundle grouping factors per applicable equipment standard.

Standards and approvals

✓ SAE J1128 Type GXL · ISO 6722-1 Class C (+125 °C)

✓ 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/gxl-anti-capillary-water-blocked-automotive-wire



Typical values for this cable type, based on SAE J1128 Type GXL · ISO 6722-1 Class C (+125 °C). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.