



ZB9044 | Sensor cable, PUR, TORSION, 3 x 0.34 mm², capable of torsion, black

Electrical data	
Rated voltage	300 V
Insulation resistance	≥ 500 MΩ/km
Wire resistance (signal/24V)	≤ 58.0 Ω/km (20 °C)
Test voltage	≥ 2000 V
Mechanical data	
Conductor construction (signal/24V)	42 x 0.10 mm, conductor category 6 according to DIN VDE 0295
Cross section	3 x 0.34 mm ² (AWG22)
Min. bending radius, moved	7.5 x outer cable diameter
Min. bending radius, fixed installation	4 x outer cable diameter
Weight	33.7 kg/km (22.65 lb/1000 ft)
Outer cable diameter	4.9 mm ± 0.2mm (0.193" ± 0.0079")
Conductor material (signal/24V)	copper bare
Shielding	no
Use	robotic- and drag chain suitable
Max. acceleration	5 m/s ²
Max. speed	3.3 m/s
Max. travel distance	100 m
Max. number of cycles	10 million
Jacket colour	black
Material jacket	PUR (polyurethane)
Material jacket, further characteristics of	weld-spatter resistant, low adhesion
Wire colour code	brown, blue, black
Wire insulation material	TPE (thermoplastic elastomer)
Printing on the jacket	XXXXm Beckhoff Automation GmbH & Co. KG -Germany-Sensor ZB9044-3x0,34mm ² E170315 cRUus AWM STYLE 20233 AWM I/II A/B 80°C 300V FT1
Printing colour	white
Torsion angle in °/m	max. ± 360°/m
Torsion speed	15 cycle/min.
Number of torsion cycles	10 million
Claimed torsion length	2 m

Environmental data	
Operation temperature range, moved	-30 °C... +105 °C, -22 °F...+221 °F, UL: up to +80 °C (+176 °F)
Operation temperature range, fixed installation	-40...+105 °C, -40...+221 °F
Oil resistance	very good oil and chemical resistance
LABS-free	yes
Flame-retardant	according to IEC 60332-1
Halogen-free	yes
Silicone-free	yes

Notes

- The following length tolerances apply: 2-3 %

Ordering information	Length
ZB9044	sold by the metre

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