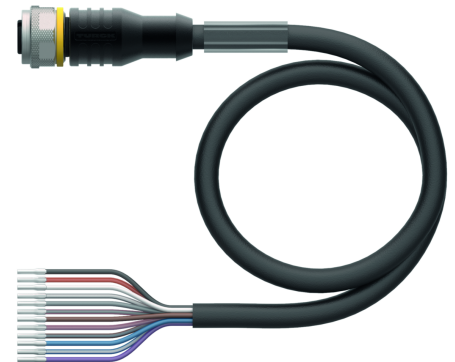
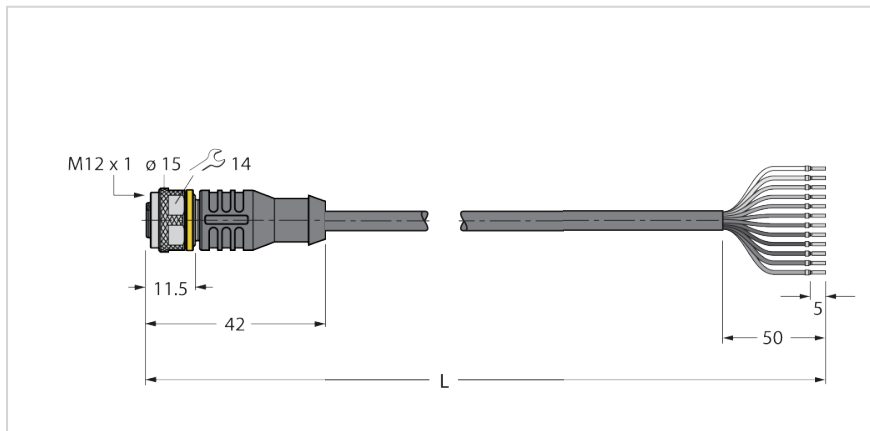


RKC12T-20/TXL

Actuator and Sensor Cable, PUR Connection Cable



Type designation	RKC12T-20/TXL
Ident-No.	6628904

Technical data

General data	
Special features	Suitable for drag chain use
Electrical data	
Current	1,5 A
Rated voltage	30 V
forward resistance	max.138 Ω/km
Insulation resistance	>30,5 MΩ/km
Test voltage	2000 V
Mechanical data	
Bending radius (stationary installation)	≥5 x Ø
Bending radius (flexible use)	≥10 x Ø
Bending cycles	≥5 Mio.
Admissible acceleration	max. 5 m/s ²
Admissible travel path, horizontal	5 m (at 5 ;m/s ²)
Admissible travel path, vertical	2 m (at 5 m/s ²)
Admissible traversing speed	3,3 m/s
Torsional stress	±180 °/m
Connector A	
Mechanical lifespan	> 100 Mating cycles

Features

- Female M12, straight, 12-pin
- Jacket material: PUR
- Jacket color: black
- Suitable for drag chain use
- Resistant to chemicals, UV radiation and oils
- Flame retardant (FT2 acc. to UL 1581, IEC 60332-2-2)
- Resistant to welding sparks
- Free from halogen, silicone, PVC and LABS
- Particularly resistant to abrasion
- Protection class: IP67, IP69K
- Cable length: 20 m

Technical data

Connector A	Female, M12 x 1, Straight, A-coded
Number of Pins	12
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, TPU, Black
Connector body	Plastic, TPU, Black
Coupling nut/screw	Brass, CuZn, Nickel-plated
Seal	Plastic, FPM/FKM
Pollution degree	3
Protection class	IP67, IP69K, Only in screwed condition

Cable

Cable diameter	5,4 mm ± 0.20
Cable length	20 m
Cable jacket	PUR, Black
Core insulation	PP
Core cross-section	12 x 0,14 mm ²
Arrangement of strands	18 x 0,1 mm
Core colors	BN, WH, BU, BK, GY, PK, VT, OG, GY/ PK, WH/BU, WH/GY, GY/BN

Ambient conditions

Ambient temperature (mobile)	-25...+80 °C
Ambient temperature (fixed)	-50...+80 °C
Ambient temperature (drag chain)	-25...+60 °C

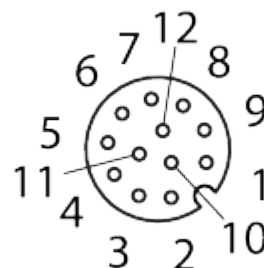
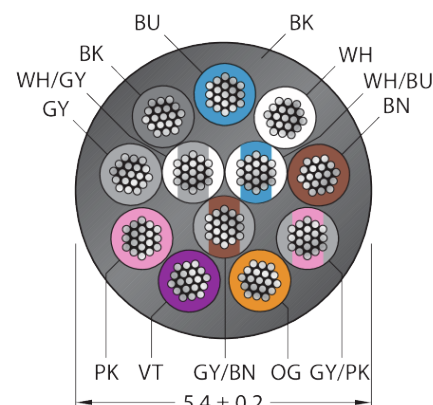
Tests/approvals

Approvals	cULus
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Comments

Packaging unit	1
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Cable Cross-Section



Circuit Diagram

1	BN
2	WH
3	BU
4	BK
5	GY
6	PK
7	VT
8	OG
9	GY/PK
10	WH/BU
11	WH/GY
12	GY/BN

Functional principle

Drawing shows design status including hexagon coupling nut (Production start CW11/2016). Wiring diagram shows contact assignment acc. to DIN EN 60947-5-2

(Production start CW16/2017).

Stranded Wire Colors

Pin	DIN 47100 (old)	DIN EN 60947-5-2 (new)
1	BN	BN
2	BU	WH
3	WH	BU
4	GN	BK
5	PK	GY
6	YE	PK
7	BK	VT
8	GY	OG
9	RD	GY/PK
10	VT	WH/BU
11	GY/PK	WH/GY
12	RD/BU	GY/BN

Mounting accessories

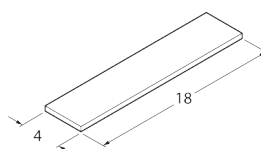
TORQUE-WRENCH-SET-AS 6936170

Torque wrench set; handles with adjustable torque 0.4-1.0 Nm, torque wrench for M8 (SW9), fork wrench for M12 (SW 14)

BLANK-LABEL-FOR-CORDSETS-TEL-TXL

6936206

Label for TEL and TXL cables, length: 18 mm, height: 4 mm, material: polycarbonate (PC), color: white, halogen-free and flame-retardant



BS81121-0/PG9

6604053

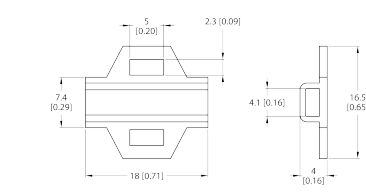
Field-wireable male connector, M12 × 1, straight, 12-pin, solder contact, cable feedthrough 6.0 to 8.0 mm, core cross-section/terminal capacity 0.14 to 0.25 mm², plastic housing, metal retaining screw

BS82121-0/PG9

6936122

Field-wireable male connector, M12 × 1, angled, 12-pin, solder contact, cable feedthrough 6.0 to 8.0 mm, core cross-section/terminal capacity 0.14 to 0.25 mm², plastic housing, metal retaining screw

Connection accessories

LABEL-HOLDER-FLEX-PVC	100048170
 Technical drawing of the LABEL-HOLDER-FLEX-PVC showing front and side views with dimensions in mm [tolerance]. Front view dimensions: 5 [0.20], 2.3 [0.09], 7.4 [0.29], 18 [0.71]. Side view dimensions: 4.1 [0.16], 16.5 [0.65], 4 [0.16]. more [enq2]	PVC label holder for identification of extension cables (TEL/TXL product series); for cable diameters: min. 5 mm; dimensions 4 × 18 mm; delivery unit: 50 pcs. per package