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TURCK



Connectivity Type Codes

P	K	G	V	3	M	- P7X2 -		5	- * / TXL				
P	K	G	V	3	M	Grip body	-	P7X2	LED	-	5	Cable length	-
						Lock M Metric S Snap-on Z Snap-on, with pull-off protection		LED Blank Without LED P7X2 2 PNP LED, Pin 4 = YE, Power = GN N7X2 NPN LED, Pin 4 = YE, Power = GN			Cable length [m] 5 5 mm		
						Pins and wires 3 3-pin, 3-wire 4 4-pin, 4-wire		* Wildcard extension cable	/	TXL	Cable quality		
						Coupling nut Blank Nickel-plated brass V Stainless steel H Hygienic design (incl. Stainless steel nut) S Nut, Nickel-plated brass, shielded		Wildcard extension cable Blank Connection cable PSGV3M Extension cable: male type (example), see Grip body			Cable quality TXL PUR, black, halogen-free TXG PUR, gray, halogen-free TXO PUR, orange, halogen-free TXY PUR, yellow, halogen-free TEL PVC, black TEG PVC, gray TEY PVC, yellow TFE PVC, gray (Food & Beverage) TFW PP, white, halogen-free (Food & Beverage) TFG PP, gray, halogen-free (Food & Beverage)		
						Alignment G Straight W Angled							
						Version K Female S Male							
						Connector M8/Ø 8 mm							

M8 – Receptacles

The diagram illustrates the breakdown of the connector code **PFKS4F-0.5/S** into its constituent parts and their meanings:

- P Design**: Design P, M8 straight
- F Connector type**: Connector type F, Receptacle
- K Version**: Version K (Female), S (Male)
- S Lock**: Lock Blank (Snap-on), S (M8 thread)
- 4 Pins**: Pins 3 (3-pin), 4 (4-pin)
- F Installation**: Installation Blank (Front-panel mounting), F (Rear-panel mounting)
- 0.5 Connection**: Connection 0.5 (Stranded wire, 0.5 m), P (Print contacts), L (Solder contacts)
- / S Special design**: Special design

M12 – Connection and Extension Cables

R	K	C	V	4	T	-	P7X2	-	5	-	*	/	TXL		
R	K	C	V	4	T	Grip body		-	P7X2	LED	-	5	Cable length	-	
						Version with anti-kink Sleeve		LED				Cable length [m]			
						T	Sleeve	Blank		Without LED		5	5 m		
						Q	Quick connect	P7X2		2 PNP LED, Pin 4 = YE Power = GN		...	...m		
						Pins and wires		P7X3		3 PNP LED, Pin 2 = YE, Pin 4 = YE, Power = GN					
						4	4-pin, 3-wire	P7X3.1		3 PNP LED, Pin 2 = RD, Pin 4 = YE, Power = GN					
						4.4	4-pin, 4-wire	P7X3.2		3 PNP LED, Pin 2 = WH, Pin 4 = YE, Power = GN					
						4.5	5-pin, 5-wire Pin 5 = GY	N7X...		NPN, LED, Number and Color analog P7X...					
						5	5-pin, 5-wire Pin 5 = GN/YE								
						Coupling nut		*		Wildcard extension cable		/	TXL	Cable quality	
						Blank	Nickel-plated brass	Wildcard extension cable						Cable quality	
						V	Stainless steel	Blank		Connection cable				TXB	PUR, blue (NAMUR)
						Housing		RSCV4T		Extension cable: male type (example), see Grip body				TXL	PUR, black, halogen-free
						C	Standard							TXG	PUR, gray, halogen-free
						S	Shield on coupling nut							TXO	PUR, orange, halogen-free
						H	Hygienic design (incl. Stainless steel nut)							TXY	PUR, yellow, halogen-free
						Version								TEB	PVC, blue (NAMUR)
						K	Female							TEL	PVC, black
						S	Male							TEG	PVC, gray
						Connector								TEY	PVC, yellow
						R	M12, straight							TFE	PVC, gray (Food & Beverage)
						W	M12, angled							TFG	PP, gray, halogen-free (Food & Beverage)
														TFW	PP, white, halogen-free (Food & Beverage)

M12 – Receptacles

EC	-	F	K	D	H	E	4	-	*	/	16	/	S	
EC	Mounting thread					-	F	Connector type			K	Version		
Mounting thread							Connector type				Version			
EC Mounting thread, metric							F Receptacle				K Female			
Blank Mounting thread PG											S Male			
D	Alignment					H	Alignment			E	Housing/Coding			
Alignment							Alignment				Housing/Coding			
D Rotatable							H Height adjustment with locknut				E Stainless steel			
											W B-coded (PROFIBUS-DP)			
4	Pins					-	*	Connection			/	16	Mounting thread	
Pins							Connection				Mounting thread			
3 3-pin							0.5 Stranded wire, 0.5 m				16 M16			
4 4-pin							L Solder contacts				20 M20			
5 5-pin							P Print contacts				Blank PG9			
8 8-pin											13.5 PG13.5			
12 12-pin														
S	Special design													
Special design														

R	K	M	4	3	-	5M	-	*
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R	K	M	4	3	Grip body	-	5M	Cable length	-	*	Wildcard extension cable
					Serial number			Cable length [m]			Wildcard extension cable
					3			5M 5 m			Blank Connection cable
								...M ...m			RSM43 Extension cable: male type (example), see Grip body
					Pins and wires						
					2 2-pin, 2-wire						
					3 3-pin, 3-wire						
					4 4-pin, 4-wire						
					5 5-pin, 5-wire						
					6 6-pin, 6-wire						
					Coupling nut						
					M Nickel-plated brass						
					MV Stainless steel						
					Version						
					K Female						
					S Male						
					Alignment						
					R 7/8", straight						
					W 7/8", angled						

M23 – Connection and Extension Cables

C	K	C	W	M	V	-	*	12	-	12	-	5	/	TXL					
C	K	C	W	M	V	Grip body			-	*	Wildcard extension cable			12	Pins				
						Coupling nut Blank Nickel-plated brass V Stainless steel									Wildcard extension cable Blank Connection cable CKCWMV Extension cable: female type (example), see Grip body		Pins 7 7-pin 12 12-pin 16 16-pin 19 19-pin		
						Connector Blank Metal connector, field-wireable M Plastic, overmolded									12 Number of conductors		-	5 Cable length	/
						Alignment Blank Straight W Angled									Number of conductors ... Number of conductors		Cable length [m] 5 5 mm		
						Color code (cores) Blank DC, color code North America C DC, color code Europe, (preferably 12-pin)									TXL Cable quality		-		
						Version K Female contact, coupling nut S Male contact, coupling nut									Cable quality Blank PVC, gray TXL PUR, black, halogen-free S 90 PUR, gray				
						M23 connector													

Valve Connector

V A S 22 - A 80E - 5 - * / TXL

V DIN 43650 valve connector	A Design	S Housing material
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DIN 43650 valve connector

- T Cable outlet on PE
- V Cable outlet opposite to PE

Design

- A 27.5 × 27.5 mm; 18 mm contact gap
- B 21.5 × 28 mm; 10 mm contact gap
- I 21.5 × 28 mm; 11 mm contact gap
- C8 16 × 16 mm; 8 mm contact gap
- C9 16 × 16 mm; 9.4 mm contact gap

Housing material

- S TPU, black translucent

22 Assignment	A Visualization/Wiring	80E Cable type
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Assignment

- 02 2 contacts + PE
- 03 3 contacts + PE
- 04 3 contacts + PE for pressure switches
- 22 2 contacts + 2 PE bridged

Visualization/Wiring

- A no, no, 230 VAC/DC
- B LED yellow, without, 24...48 VAC/DC
- D LED yellow, Varistor, 24...48 VAC/DC
- E LED yellow, Varistor, 230 VAC/DC
- F LED yellow, diode, 24...48 VDC
- K LED green/red (pressure switch), 24 VDC
- L LED yellow, no, 24 VAC/DC
- M LED yellow, no, 48 VAC/DC
- P LED yellow, Varistor, 24 VAC/DC
- R LED yellow, Varistor, 48 VAC/DC
- S LED yellow, transil diode, 24 VAC/DC
- T LED yellow, Z-diode, 24 VAC/DC

Cable type

- W Molded connector
- 80E 3 × 0.75 mm²
- 81E 4 × 0.75 mm²

5 Cable length	* Extension cable	/ TXL Cable quality
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Cable length [m]

- 5 5 m
-m

Extension cable

- RSC5T Extension cable: connector type/grip body (example)
- DAS... Valve connector on cordset only design type A, cable type 81E, cable length from valve connector 2

Cable quality

- TXL PUR, black, halogen-free
- TEG PVC, gray

RJ45	-	*	-	4416	-	5M
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RJ45	S	Grip body	5M	Cable length
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RJ45	S	-	*	-	4416	-	5M
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RJ45	S	Grip body	5M	Cable length
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BL ident – RFID Connection Cables

RK4.5T	5	S2503
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RK4.5T	Design, female connector	5	Cable length	S2503	Cable quality
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Design, female connector	Cable length	Cable quality
RK4.5T Female, straight, 5-pin	0.3 0.3 m	S2503 PUR, black, qualified for drag chain use
WK4.5T Female, angled, 5-pin	2 2 m	
	5 5 m	
	10 10 m	
	25 25 m	
	50 50 m	

PROFIBUS-DP – Connection and Extension Cables

R	S	S	W	V	*	451	5M
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R	S	S	W	V	Grip body	*	Wildcard extension cable	451	Cable type	-
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Coupling nut	Wildcard extension cable	Cable type
blank Nickel-plated brass	Blank Connection cable	451 PROFIBUS-DP, PUR, qualified for drag chain use
V Stainless steel	RKSW Extension cable: female type/ grip body (example)	452 PROFIBUS-DP, PVC, only rigid installation

Coding	Shield	Version	Alignment
W B-coded	S Shield on coupling nut	K Female	R M12, straight
		S Male	W M12, angled

5M	Cable length
5M	5 m
...M	...m

DeviceNet – Connection and Extension Cables

R	S	C	V	*	5701	5M
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R	S	C	V	Grip body	*	Wildcard extension cable	5701	Cable type	-
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Coupling nut	Wildcard extension cable	Cable type
blank Coupling nut: nickel-plated brass	Blank Connection cable	5701 Thin PUR, halogen-free, qualified for drag chain use
V Coupling nut: stainless steel	RKC Extension cable: female	572 Thin PVC, only rigid installation

Mechanical Connection	Version	Alignment
C M12	K Female	R Straight
M 7/8"	S Male	W Angled

5M	Cable length
5M	5 m
...M	...m

Sensor/Actuator-Box – Homerun Cable

TB – **8** **M12** **V** – **5** **P** **3** – **5** – **CSM19** / **TXL**

TB	Product series	–	8	M12	V	Ports	–	5	P	3	Assignment	–
	Junction box					Material threaded sleeve Blank Nickel-plated brass V Stainless steel Connector M12 M12 × 1 Number of ports 4 4 ports 6 6 ports 8 8 ports					Number of LEDs (if available) 2 1 power + 1 signal LED/port 3 1 power + 1 signal LED/port LED Blank Without LED P LED, PNP N LED, NPN Singals per port 4 1 signal/port 5 2 signals/port	

5	Cable length	–	CSM19	Connection	/	TXL	Special design
	Cable length 5 5 mm			Injection-moulded connector (if available) CSMV12 12-pin M23 (stainless steel) CSM19 19-pin M23 (Nickel-plated brass)			Special design TXL PUR, black, halogen-free CS... Customer specific

Sensor/Actuator-Box – Connector

TB – **8** **M12** **V** – **5** **P** **3** – **CS19** **T**

TB	Product series	–	8	M12	V	Ports	–	5	P	3	Assignment	–
	Junction box					Material threaded sleeve Blank Nickel-plated brass V Stainless steel Connector M12 M12 × 1 Number of ports 4 4 ports 6 6 ports 8 8 ports					Number of LEDs (if available) 2 1 power + 1 signal LED/port 3 1 power + 1 signal LED/port LED Blank Without LED P LED, PNP N LED, NPN Singals per port 4 1 signal/port 5 2 signals/port	

CS19	T	Connection
		Port output T Top H Side Port CSV12 12-pin M23 (stainless steel) CS19 19-pin M23 (nickel-plated brass) CSV19 19-pin M23 (stainless steel)

Deutsch DT Series – Connection and Extension Cables

DT	06	-	2	S	G	-	A	-	5	/	TXL
DT	06	Design	-	2	S	G	Connector	-	A	LED/Circuitry	-
		Version 04 Male 06 Female Connector DT Deutsch DT connector			Thread Blank Without thread G Thread for closure cap Version S Female P Male Pins 2 2-pin 3 3-pin 4 4-pin 6 6-pin 8 8-pin 12 12-pin		LED/Circuitry A No LED/without S LED/Suppressor diode (only 2 and 3-pin)		5 Cable length [m] / Cable length [...] 5 5 m m	TXL Cable quality Cable quality TXL PUR, black, halogen-free TEG PVC, gray	

Super-Seal Series – Connection Cables

TSS	-	2	S	-	A	-	5	/	TXL					
TSS	Design				-	2	S	Connector		-	A	LED/Circuitry		-
	Design							Version				LED/Circuitry		
	TSS Male connector Turck Super Seal							S Female P Male				A No LED/without		
								Pins				5 Cable length [m]		/
								2 2-pin 3 3-pin 4 4-pin 5 5-pin 6 6-pin				Cable length [...]		
												5 5 m M		
												TXL Cable quality		
												Cable quality		
												TXL PUR, black, halogen-free TEG PVC, gray		

M12 – Power – Connection and Extension Cables

R	K	P	46	-	PT	-	*	-	/S...
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R	K	P	46	Grip body	-	PT	Coding	-	*	Cable length	-
				Terminal cross-section 44 4 × 14 AWG, 4 × 2.5 mm ² 46 4 × 16 AWG, 4 × 1.5 mm ² 54 5 × 14 AWG, 5 × 2.5 mm ² 56 5 × 16 AWG, 5 × 1.5 mm ² Coupling nut Blank Nickel-plated brass V Stainless steel Housing P Plastic housing S Shielded Version K Female S Male Alignment R M12, straight W M12, angled			Color coding Blank Same color coding for North America and Europe E Color coding for Europe type E B Color coding for Europe type B Coding¹ PK Power, K-coded PL Power, L-coded PS Power, S-coded PT Power, T-coded		Cable length [m]		

	Wildcard extension cable	-	/S...	Special design	-
	Wildcard extension cable Blank Connection cable RSP46-PT Extension cable, connector type and coding (example), see Grip body and Coding			Special design Blank PVC /S, /CS Special design /TXL PUR, black, halogen-free	

¹ Coding			
K	L	S	T
1 = BK 1	1 = BN	1 = BK 1	1 = BN
2 = BK 2	2 = WH	2 = BK 2	2 = WH
3 = BK 3	3 = BU	3 = BK 3	3 = BU
4 = BK 4	4 = BK	-	4 = BK
PE = GN/YE	PE = GN/YE	PE = GN/YE	

M12 – Power – Field-wireable Connectors

R	K	P	56	PL	S	-	0	/	S...
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R	K	P	56	PL	S	Grip Body	-	0	Cable Gland	-	S...	Special Design
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Connection Mode

L Solder connection

S Screw connection

I Isolation displacing connector technology

F Spring type terminal

Coding

PK Power, K-coded

PL Power, L-coded

PS Power, S-coded

PT Power, T-coded

Terminal Cross-section

46 4 × 16...14 AWG
4 × 1,5...2,5 mm²

56 5 × 16...14 AWG
5 × 1,5...2,5 mm²

Housing

P Power plug body

Z Metal housing

S Shielded

Version

K Female

S Male

Alignment

R M12, straight

W M12, angled

Cable Gland

0 Cable Ø 8...10 mm

Special Design

M12 – Power – Receptacles

FK	FD	46	-	PL	E	-	0.5	/	M16	
FK	FD	46	Design	-	PL	Coding	-	*	Color code (cores)	-
			Terminal cross-section			Coding			Color code (cores)	
		46	4 × 16 AWG (BK, BN, BU, WH)		PK	Power, K-coded			Blank	K/L/T-coded, different color codes
		56	5 × 16 AWG (BK, BN, BU, WH, GN/ YE)		PL	Power, L-coded			E	S-coded, color code Europe
					PS	Power, S-coded			N	S-coded, different color codes
					PT	Power, T-coded				
			Mounting							
			Blank	Front-panel mounting						
			FD	Back-panel mounting						
					0.5	Cable length	/	M16	Mounting thread	
						Cable length [m]			Mounting thread	
					0.5	0.5 m			16	M16
					...	...m				
			Design							
			FK	Female						
			FS	Male						

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