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

M12 – Receptacles

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

7/8" – Connection and Extension Cables

R	K	M	4	3	-	5M	-	*					
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	
					Pins and wires				...M	...m	RSM43	Extension cable: male type (example), see Grip body	
					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								Wildcard extension cable		Pins							
						Blank		Nickel-plated brass		Blank		Connection cable		7	7-pin								
						V		Stainless steel		CKCWMV		Extension cable: female type (example), see Grip body		12	12-pin								
														16	16-pin								
														19	19-pin								
						Connector																	
						Blank		Metal connector, field-wireable															
						M		Plastic, over-molded															
						Alignment								12		Number of conductors		-	5	Cable length		/	
						Blank		Straight															
						W		Angled															
						Color code (cores)																	
						Blank		DC, color code North America															
						C		DC, color code Europe, (preferably 12-pin)															
						Version																	
						K		Female contact, coupling nut															
						S		Male contact, coupling nut															
						M23 connector																	
																TXL		Cable quality					

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

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
		458 PROFIBUS-DP, PUR, qualified for drag chain use and torsional load

Coding	5M	Cable length
W B-coded		
	Cable length [m]	
	5M 5 m	
	...M ...m	

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

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
		5711 Mid PVC, only rigid installation
		579 Thick PVC, only rigid installation

Mechanical Connection	5M	Cable length
C M12		
M 7/8"	Cable length [m]	
	5M 5 m	
	...M ...m	

Version	Alignment
K Female	R Straight
S Male	W Angled

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					Thread			LED/Circuitry	
		04 Male					Blank Without thread			A No LED/without	
		06 Female					G Thread for closure cap			S LED/Suppressor diode (only 2 and 3-pin)	
		Connector					Version				
		DT Deutsch DT connector					S Female				
							P Male				
							Pins				
							2 2-pin				
							3 3-pin				
							4 4-pin				
							6 6-pin				
							8 8-pin				
							12 12-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		

R	K	P		46	-	PT		-	*	-		-	/S...
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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 x 1,5...2,5 mm²

56 5 × 16...14 AWG
5 x 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		0.5	Cable length		/	M16	Mounting thread
			FD Back-panel mounting			Cable length [m]				Mounting thread
					0.5	0.5 m			16	M16
					...	...m				
			Design							
			FK Female							
			FS Male							

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