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Connectivity Type Codes

M8 – Connection and Extension Cables

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							
						Coupling nut Blank Nickel-plated brass V Stainless steel H Hygienic design (incl. Stainless steel nut) S Nut, Nickel-plated brass, shielded							
						Alignment G Straight W Angled							
						Version K Female S Male							
						Connector M8/Ø 8 mm							
								* Wildcard extension cable			/ TXL Cable quality		
								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)	

M8 – Receptacles

P F K S 4 F - 0.5 / S

P	Design	F	Connector type	K	Version
	Design P M8 straight		Connector type F Receptacle		Version K Female S Male
S	Lock	4	Pins	F	Installation
	Lock Blank Snap-on S M8 thread		Pins 3 3-pin 4 4-pin		Installation Blank Front-panel mounting F Rear-panel mounting
0.5	Connection	/	S	Special design	
	Connection 0.5 Stranded wire, 0.5 m P Print contacts L Solder contacts			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	-
						<div>Version with anti-kink Sleeve</div> <div>T Sleeve</div> <div>Q Quick connect</div> <div>Pins and wires</div> <div>4 4-pin, 3-wire</div> <div>4.4 4-pin, 4-wire</div> <div>4.5 5-pin, 5-wire Pin 5 = GY</div> <div>5 5-pin, 5-wire Pin 5 = GN/YE</div> <div>Coupling nut</div> <div>Blank Nickel-plated brass</div> <div>V Stainless steel</div> <div>Housing</div> <div>C Standard</div> <div>S Shield on coupling nut</div> <div>H Hygienic design (incl. Stainless steel nut)</div> <div>Version</div> <div>K Female</div> <div>S Male</div> <div>Connector</div> <div>R M12, straight</div> <div>W M12, angled</div>		<div>LED</div> <div>Blank Without LED</div> <div>P7X2 2 PNP LED, Pin 4 = YE Power = GN</div> <div>P7X3 3 PNP LED, Pin 2 = YE, Pin 4 = YE, Power = GN</div> <div>P7X3.1 3 PNP LED, Pin 2 = RD, Pin 4 = YE, Power = GN</div> <div>P7X3.2 3 PNP LED, Pin 2 = WH, Pin 4 = YE, Power = GN</div> <div>N7X... NPN, LED, Number and Color analog P7X...</div>		<div>Cable length [m]</div> <div>5 5 m</div> <div>... ...m</div>			
								*	Wildcard extension cable	/	TXL	Cable quality	
									<div>Wildcard extension cable</div> <div>Blank Connection cable</div> <div>RSCV4T Extension cable: male type (example), see Grip body</div>			<div>Cable quality</div> <div>TXB PUR, blue (NAMUR)</div> <div>TXL PUR, black, halogen-free</div> <div>TXG PUR, gray, halogen-free</div> <div>TXO PUR, orange, halogen-free</div> <div>TXY PUR, yellow, halogen-free</div> <div>TEB PVC, blue (NAMUR)</div> <div>TEL PVC, black</div> <div>TEG PVC, gray</div> <div>TEY PVC, yellow</div> <div>TFE PVC, gray (Food & Beverage)</div> <div>TFG PP, gray, halogen-free (Food & Beverage)</div> <div>TFW PP, white, halogen-free (Food & Beverage)</div>	

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 Height 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							

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

The diagram illustrates the structure of a cable part number, breaking it down into its constituent parts and their meanings. The part number is shown as **C K C W M V - * 12 - 12 - 5 / TXL**.

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

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
		Version S Shield on housing, straight SE Shield on housing, angled, lock on the side of the cable outlet SI Shield on housing, angled, lock on the opposite side of the cable outlet		Cable length [m] 5M 5 m ...M ...m
		RJ45 Connector		

RJ45	S	-	*	-	4416	-	5M
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RJ45	S	Grip body	5M	Cable length
		Version		Cable length [m]
	S	Shield on housing, straight	5M	5 m
	SE	Shield on housing, angled, lock on the side of the cable outlet	...M	...m
	SI	Shield on housing, angled, lock on the opposite side of the cable outlet		
		RJ45 Connector		

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

RK4.5T Female, straight, 5-pin

WK4.5T Female, angled, 5-pin

Cable length

0.3 0.3 m

2 2 m

5 5 m

10 10 m

25 25 m

50 50 m

Cable quality

S2503 PUR, black, qualified for drag chain use

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	-
---	---	---	---	---	-----------	---	---	--------------------------	---	-----	------------	---

					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					458	PROFIBUS-DP, PUR, qualified for drag chain use and torsional load
					W	B-coded					
					Shield			5M	Cable length		
					S	Shield on coupling nut			Cable length [m]		
								5M	5 m		
								...M	...m		
					Version						
					K	Female					
					S	Male					
					Alignment						
					R	M12, straight					
					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

blankCoupling nut:
nickel-plated brass

VCoupling nut:
stainless steel

Mechanical Connection

C M12

M 7/8"

Version

K Female

S Male

Alignment

R Straight

W Angled

5M

Cable length

Cable length [m]

5M 5 m

...M ...m

5701

Cable type

5701

Thin PUR, halogen-free, quali-
fied for drag chain use

572

Thin PVC, only rigid installation

5711

Mid PVC, only rigid installation

579

Thick PVC, only rigid installation

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

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						
								2 2-pin 3 3-pin 4 4-pin 5 5-pin 6 6-pin						
												5	Cable length [m]	/
													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 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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