

SERIES	TYPE	PAGE
Cordsets	M12 Eurofast Cordsets	H2
	M12 Eurofast LED Cordsets	H9
	M12 Eurofast Field Wireable Connector	H10
	M23 Multifast Cordsets	H11
	M23 Multifast Field Wireable Connectors	H11
	Military Cordsets	H12
	Military Field Wireable Connectors	H12

We reserve the right to make technical alterations without prior notice.

4-Pin M12 Eurofast Cordsets Standard Plug Body

- Straight Female Connector
- NEMA 1, 3, 4, 6P and IEC IP68, IP69K Protection
- 250 VAC/300 VDC, 4 A



Drawing	Part Number	Cable	Features	Pinouts
	RK 4.41T-*	AWM PVC NAMUR Blue 4x22 AWG 221 °F (105 °C) 5.2 mm OD Cable #RF50598-*M†	Flexlife	
	RK 4.41T-*/S529	AWM PUR/Heavy Braid Double Jacket, Yellow 4x20 AWG 221 °F (105 °C) 5.8 mm OD Cable #RF50526-*M†	Cut/Abrasion Immune Braided Mechanical Shield	
	RK 4.43T-*	AWM PVC Yellow 4x22 AWG 221 °F (105 °C) 5.2 mm OD Cable #RF50530-*M†	Flexlife	
	RK 4.43T-*/S90	AWM PUR Yellow 4x22 AWG 221 °F (105 °C) 5.2 mm OD Cable #RF50613-*M†	Cut/Abrasion Immune	
	RK 4.4T-*	AWM PVC Grey 4x22 AWG 221 °F (105 °C) 5.2 mm OD Cable #RF50516-*M†	Flexlife	
	RK 4.4T-*/S90	AWM PUR Grey 4x22 AWG 221 °F (105 °C), 5.2 mm OD Cable #RF50532-*M†	Cut/Abrasion Immune	
	RK 4.4T-*/S101	AWM TPE Grey 4x22 AWG 221 °F (105 °C), 5.7 mm OD Cable #RF50941-*M†	Flexlife-10, High Flex Over 10 Million Cycles	
	RK 4.4T-*/S824	PLTC PVC Grey 4x22 AWG 221 °F (105 °C), 5.2 mm OD Cable #RF50698-*M†	Tray Rated	
	RK 4.4T-*/S618	AWM PVC Grey 4x22 AWG, Foil/Drain 221 °F (105 °C), 5.2 mm OD Cable #RF50577-*M†	RFI/EMI Shielding	
	RK 4.4T-*/S618/S824	PLTC PVC Grey 4x22 AWG, Foil/Drain 221 °F (105 °C), 5.2 mm OD Cable #RF50773-*M†	RFI/EMI Shielding Tray Rate	

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.

** Standard coupling nut material is nickel plated brass "RK ."; "RKK ." indicates nylon, and "RKV ." indicates 316 stainless steel.

† For Reelfast® cable information see Connectivity Catalog.

Shield is not connected to coupling nut.

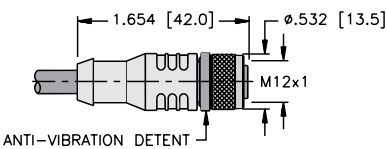
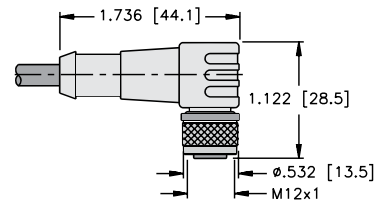
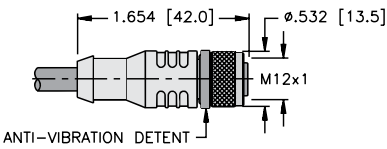
We reserve the right to make technical alterations without prior notice.



5-Pin M12 Eurofast Cordsets

- For use with Turck's Absolute Encoders
- Straight and Right Angle Female Connectors
- NEMA 1, 3, 4, 6P, and IEC IP68, IP69K



Drawing	Part Number	Cable	Features	Pinouts
RKC .. 	E-RKC 4.5T-1695-*/A			
WKC .. 	E-WKC 4.5T-1695-*/A	AWM PVC Grey 4x22 AWG 2 STP 221 °F (105 °C) 5.2 mm OD Cable #RF51695-*M†	Turck's Analog Encoder	1. N/C 2. BN 3. WH 4. GN 5. YE
E-RKC .. 	E-RKC 4.5T-930-*	AWM PVC Black 5x24 AWG 221 °F (105 °C) 7.3 mm OD Cable #RF50930-*M†	Turck's Incremental Encoder (single-ended)	1. BN 2. GY 3. WH 4. GN 5. BU

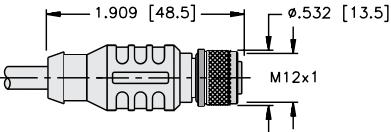
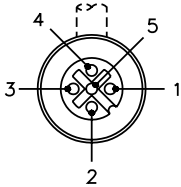
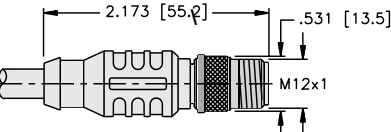
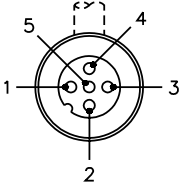
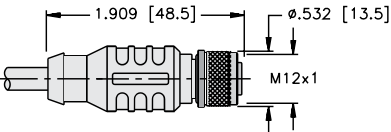
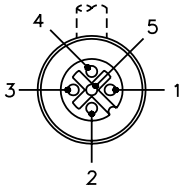
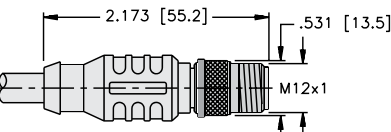
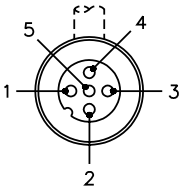
* Length in meters. Standard cable lengths are 2, 5, 10 and 15 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "E-RKC../E-WKC..;" "E-RKCV../E-WKCV.." indicates 316 stainless steel.
† For Reelfast cable information see Connectivity Catalog.
Shield is not connected to coupling nut.

We reserve the right to make technical alterations without prior notice.

5-Pin M12 Eurofast Cordsets

- For use with Turck's Absolute Encoders
- Straight and Right Angle Female Connectors
- NEMA 1, 3, 4, 6P, and IEC IP68, IP69K



Drawing	Part Number	Cable	Features	Pinouts
RKC .. 	RKC 572-*M/S3117	TPU Blue/Grey 4x22 AWG 2 STP 167 °F (75 °C) 7.2 mm OD Cable #RB50603-*M†	Turck's CANbus Encoder (without CANground)	
RSC .. 	RSC 572-*M/S3118			
RKC .. 	RKC 572-*M	TPU Blue/Grey 4x22 AWG 2 STP 167 °F (75 °C) 7.2 mm OD Cable #RB50603-*M†	Turck's CANbus Encoder (with CANground)	
RSC .. 	RSC 572-*M			

* Length in meters. Standard cable lengths are 2, 5, 10 and 15 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "E-RKC../E-WKC../"E-RKCV../E-WKCV.. indicates 316 stainless steel.
† For Reelfast cable information see Connectivity Catalog.
Shield is not connected to coupling nut.

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5-Pin M12 Eurofast D-Coded Cordsets

CANopen

- Straight Male Connector
- NEMA 1, 3, 4, 6P and IEC IP68, IP69K Protection
- 250 V, 4 A



Part Number	Cable	Features	Pinouts
WASW 4.5T-*/S618	AWM PVC Grey 5x22 AWG 105 °C 5.7 mm OD Cable #RF50609-*M†	Turck's CANbus multiturn encoder with incremental tracks	1. BN 2. WH 3. BU 4. BK 5. GY

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "WASW .."; "WASKW .." indicates nylon, and "WASVW .." indicates 316 stainless steel.
† For Reelfast cable information see Connectivity Catalog.

M12 Eurofast D-Coded Cordsets Selection Matrix

Ethernet / EtherCAT

		Eurofast				
		Pin (Male)	Socket (Female)	Pin (Male)	Socket (Female)	RJ45 Plug
		 RSSW	 WSSW	 FSSDED	 FKSDED	 RJ45S
Eurofast	Bare	 Bare				
	Pin (Male)	 RSSD				
	Socket (Female)					
	RJ45 Plug					
	Bare	RSSD 441-*M	RKSD 441-*M	FSSDED 441-*M	FKSDED 441-*M	RJ45S 441-*M
	Pin (Male)	RSSD RSSD 441-*M	RSSD RKSD 441-*M	RSSD FSSDED 441-*M	RSSD FKSDED 441-*M	RSSD RJ45S 441-*M
	Socket (Female)		RKSD RKSD 441-*M	RKSD FSSDED 441-*M	RKSD FKSDED 441-*M	RKSD RJ45S 441-*M
	RJ45 Plug			RJ45S FSSDED 441-*M	RJ45S FKSDED 441-*M	RJ45S RJ45S 441-*M

* Cable length in meters.
Refer to the Cordsets Builder at www.turck.com for assistance with cordset/cable combinations.
Standard cable lengths are 1, 2, 4, 5, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.
For stainless steel coupling nuts change part number RSSD...RSSDV, FSSDED...FSSDEDV.
Shield is not connected to coupling nut.

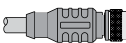
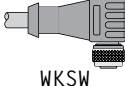
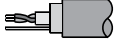
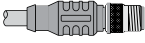
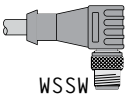
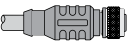
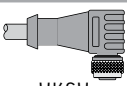
Eurofast	Pinout	Eurofast
	1. WH / OG (+ tx) 2. WH / GR (+ rx) 3. OG (- tx) 4. GR (- rx)	
Male		Female

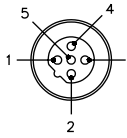
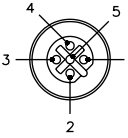
RJ45 Pinout	RJ45 Plug	RJ45 (CR) Pinout
1. WH / OG 2. OG 3. WH / GR 4. N/C 5. N/C 6. GR 7. N/C 8. N/C	 12345678 Male	1. WH / GR 2. GR 3. WH / OG 4. N/C 5. N/C 6. OG 7. N/C 8. N/C

We reserve the right to make technical alterations without prior notice.

M12 Eurofast Cordsets Selection Matrix

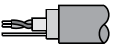
PROFIBUS®-DP

		Eurofast				
		Pin (Male)		Socket (Female)		
						
		RSSW	WSSW	RKSW	WKSX	
Eurofast	Bare		RSSW 590-*M	WSSW 590-*M	RKSW 590-*M	WKSX 590-*M
	Pin (Male)		RSSW RSSW 590-*M	RSSW WSSW 590-*M	RSSW RKSW 590-*M	RSSW WKSX 590-*M
	WSSW			WSSW WSSW 590-*M	WSSW RKSW 590-*M	WSSW WKSX 590-*M
	RKSW				RKSW RKSW 590-*M	RKSW WKSX 590-*M
	Socket (Female)					WKSX WKSX 590-*M

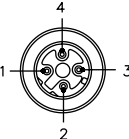
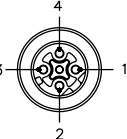
Eurofast	590 Series Pinout	Eurofast
	1. Blue (TxD_1) 2. Green (TxD) 3. White (RxT_1) 4. Red (RxT) 5. Bare (Shield Drain Wire)	
Male		Female

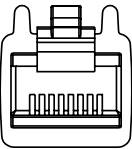
M12 Eurofast D-Coded Cordsets Selection Matrix

PROFINET

		Eurofast					
		Pin (Male)		Socket (Female)			
							
		RSSD	RKSD	FSSDED	FKSDED	RJ45S	
Eurofast	Bare		RSSD 42x-*M	RKSD 42x-*M	FSSDED 42x-*M	FKSDED 42x-*M	RJ45S 42x-*M
	Pin (Male)		RSSD RSSD 42x-*M	RSSD RKSD 42x-*M	RSSD FSSDED 42x-*M	RSSD FKSDED 42x-*M	RSSD RJ45S 42x-*M
	RKSD			RKSD RKSD 42x-*M	RKSD FSSDED 42x-*M	RKSD FKSDED 42x-*M	RKSD RJ45S 42x-*M
	Socket (Female)				RJ45S FSSDED 42x-*M	RJ45S FKSDED 42x-*M	RJ45S RJ45S 42x-*M

* Cable length in meters.
Refer to the Cordsets Builder at www.turck.com for assistance with cordset/cable combinations.
Standard cable lengths are 1, 2, 4, 5, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.
For stainless steel coupling nuts change part number RSSW...RSSWV.
Additional cable types available in the Fieldbus and Network I/O Catalog.
Shield is not connected to coupling nut.

Eurofast	42x Series Pinout	Eurofast
	1. Yellow (+tx) 2. White (+rx) 3. Orange (-tx) 4. Blue (-rx)	
Male		Female

RJ45 Pinout	RJ45 Plug	RJ45 (CR) Pinout
1. Yellow 2. Orange 3. White 4. N/C 5. N/C 6. Blue 7. N/C 8. N/C		1. Yellow 2. Orange 3. White 4. N/C 5. N/C 6. Blue 7. N/C 8. N/C



Plug & Play with Standard Automotive Connectors

On request, Turck can also supply the encoders with short cables and connectors as commonly used with standard makes in the automotive sector: Deutsch, Packard, and Molex are just some examples. This makes connection on the prefabricated cable harness a simple plug & play operation with a proven connection technology.



8-Pin M12 Eurofast Cordsets

- For use with Turck's Encoders
- Straight and Right Angle Female Connectors
- NEMA 1, 3, 4, 6P, and IEC IP68, IP69K
- 60 VAC/75 VDC, 2 A



Drawing	Part Number	Cable	Features	Pinouts
RKC .. 1.654 [42.0] 0.532 [13.5] M12x1 ANTI-VIBRATION DETENT WKC .. 1.736 [44.1] 1.122 [28.5] 0.532 [13.5] M12x1	E-RKC 8T-930-*	AWM PVC Black 8x24 AWG 221 °F (105 °C) 7.3 mm OD RF50930-*M+	Incremental, Differential Mode Applications, RFI/EMI Protection	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD
	E-WKC 8T-930-*			
	E-RKC 8T-930-*/S1115	AWM PVC Black 5x24 AWG 221 °F (105 °C) 7.3 mm OD RF50930-*M+	Incremental, Single Ended Mode Applications, RFI/EMI Protection	1. WH 2. BN 3. GN 4. N/C 5. GY 6. N/C 7. BU 8. N/C
	E-WKC 8T-930-*/S1115			
	E-RKC 8T-074-*/S3012	AWM PVC Grey 3x22 AWG 221 °F (105 °C) 5.2 mm OD RF51074-*M+	Incremental, Single Ended Mode, Single Channel Applications, RFI/EMI Protection	1. BN 2. BU 3. BK 4. N/C 5. N/C 6. N/C 7. N/C 8. N/C
	E-WKC 8T-074-*/S3012			
	E-RKC 8T-264-*	AWM PVC Black 8x24 AWG, 4 STP 221 °F (105 °C) 7.3 mm OD RF51264-*M+	Incremental, Absolute, Differential Mode Applications, RFI/EMI Protection	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD
	E-WKC 8T-264-*			

* Length in meters. Standard cable lengths are 2, 5, 10 and 15 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "E-RKC../E-WKC.."; "E-RKCV../E-WKCV.." indicates 316 stainless steel.
† For Reelfast cable information see Connectivity Catalog.
STP Shielded twisted pair.
Shield is not connected to coupling nut.

We reserve the right to make technical alterations without prior notice.



8-Pin M12 Eurofast Cordset with LEDs

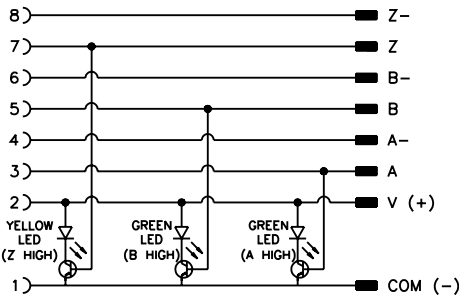
- For use with Turck’s Encoders
- Right Angle Female Connector
- NEMA 1, 3, 4, 6P, and IEC IP68, IP69K
- 5-30 VDC



Drawing	Part Number	Cable	Features	Pinout
	E-WKC 8T-PX3-930-*	AWM PVC Black 8x24 AWG 221°F (105 °C) 7.2 mm OD RF50930-*Mt	Incremental, 3 indicator LEDs in translucent molded connector for use with Turck Incremental Encoders	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD
	E-WKC 8T-PX3-264-*	AWM PVC Black 8x24 AWG, 4 STP 221°F (105 °C) 7.3 mm OD RF51264-*M+	Incremental, Absolute, Differential Mode Applications, RFI/ EMI Protection	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters.
** Standard coupling nut material is nickel plated brass "WKC."; "WKC." indicates 316 stainless steel.
† For Reelfast cable information see Connectivity Catalog.
Shield is not connected to coupling nut.

Wiring Diagram



Note:
LEDs for indication of channels A, B and Z.
Green LEDs indicate channels A and B, while amber is used for the index channel. LEDs can also be used during machine set-up for home position indication, and provide operational status of encoder output channels.

8-pin Cordset with Encoder



We reserve the right to make technical alterations without prior notice.

5-Wire M12 Eurofast Field Wireable Connectors

- Screw Terminals
- No Soldering Required
- IEC IP67 Protection



Drawing	Part Number	Specifications	Application	Pinouts
	B 8151-0/PG 9	PBT, Black PG 9 cable gland, accepts 6-8 mm cable diameter.	Mates with standard key 5-pin cordsets and receptacles	
	BS 8151-0/PG 9	Screw terminals accepts up to 18 AWG conductors. 185 °F (85 °C) 125 V, 4 A	Mates with standard key 5-pin cordsets and receptacles	

8-Wire M12 Eurofast Field Wireable Connectors, Shielded, Screw Terminals

- Screw Terminals
- No Soldering Required
- IEC IP67 Protection



Drawing	Part Number	Specifications	Application	Pinouts
	CMB 8181-0	Nickel Plated Brass PG9 cable gland accepts 6-8 mm cable diameter.	Metal, Fully Shielded Mates with standard key 8-pin cordsets and receptacles	
	CMBS 8181-0	Screw terminals accepts up to 18 AWG conductors. 185 °F (85 °C) 60 VAC/75 VDC, 4 A	Metal, Fully Shielded Mates with standard key 8-pin cordsets and receptacles	



We reserve the right to make technical alterations without prior notice.

12-Pin and 17-Pin M23 Multifast Cordsets

- Female Coupling Nut, Female Contact
- Shielded, High Grade, Oil and UV Resistant, PVC



Drawing	Part Number	Specifications	Application	Pinouts
	E-CKM 12-931-*	12x24 Black PVC 7.2 mm O.D. 26 AWG Drain, Foil and Braided Shield 221 °F (105 °C)	12-pin Incremental	1. PK 2. RD/BU 3. BU 4. RD 5. GN 6. YE 7. N/C 8. GY 9. N/C 10. WH 11. PK/GY 12. BN
	E-CKM 12-1687-*/A	12x26 Grey PVC 8.4 mm O.D. 28 AWG Drain, Foil and Braided Shield 176 °F (80 °C)	12-pin Absolute	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. BK 10. VT 11. PK/GY 12. RD/BU
	E-CKM 17-942-*	18x24 Yellow PVC 7.6 mm O.D. 26 AWG Drain, Foil and Braided Shield 221 °F (105 °C)	17-pin Absolute	1. WH 2. BN 3. GN 4. YE 5. GY 6. PK 7. BU 8. RD 9. BK 10. VT 11. PK/GY 12. RD/BU 13. WH/GN 14. BN/GN 15. WH/YE 16. YE/BN 17. WH/GY

* Length in meters. Standard cable lengths are 2, 5, 10 and 15 meters. Consult factory for other lengths.
** Standard coupling nut material is nickel plated brass "E-RKC../E-WKC.."; "E-RKCV../E-WKCV.." indicates 316 stainless steel.
*** Reversed from standard M23 connector.
† For Reelfast cable information see Connectivity Catalog.
Shield is not connected to coupling nut.

12-Pin and 17-Pin M23 Multifast Field Wireable Connectors, Shielded, Solder Cup

- Solder Cup
- IEC IP65 Protection



Drawing	Part Number	Specifications	Application	Pinout
	E-CKS 12-0	Solder Cup up to 18 AWG	Metal, fully shielded Mates with 12-pin encoders	
	E-CKS 17-0	Solder Cup up to 17 AWG	Metal, fully shielded Mates with 17-pin encoders	
	CSS 17-0	Solder Cup Up to 17 AWG	Metal, fully shielded For custom extension cables	

*** Reversed from standard M23 connector.

Military Cordsets

- 7 and 10-pin
- Shielded, High Grade, Oil and UV Resistant, PVC



Drawing	Part Number	Specifications	Application	Pinouts
	E-MK 7-930-*	24 AWG, Black PVC 7.3 mm O.D. 26 AWG Drain Foil & Braided Shield, 221 °F (105 °C)	7-pin, Threaded Mates with 7-pin encoder	A. WH B. BN C. GN D. YE E. GY F. PK G. BU
	E-MK 10-931-*	24 AWG, Black PVC 7.2 mm O.D. 26 AWG Drain Foil & Braided Shield 221 °F (105 °C)	10-pin, Threaded Mates with 10-pin encoder	A. GN F. WH B. GY G. YE C. BU H. PK D. BN I. RD E. BK J. Drain

* Cable length in meters.
*** Reversed.
Shield is not connected to coupling nut.

Military Field Wireable Connectors

- 6, 7 and 10-pin
- Threaded and Bayonet Styles



Drawing	Part Number	Specifications	Application	Pinouts
	E-MK 6-0	Solder cup connection	6-pin, Threaded Mates with 6-pin encoder	
	E-MK 7-0		7-pin, Threaded Mates with 7-pin encoder	
	E-MK 10-0		10-pin, Threaded Mates with 10-pin encoder	

