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A-Size Powerfast®

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Powerfast | **Table of Contents**

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Powerfast | A-Size 7/8" Power

Turck's A-Size Powerfast products are a proven product offering for your motor and machine power distribution applications. This quick disconnect power solution is capable of handling up to 21 amps and 600 volts, and is a great way to replace hard wiring with a robust, reliable, environmentally protected connection. Cordsets come with tray rated, exposed run cable with options for STOOW rating as well. Cordsets, receptacles and tees also have standard or alternate keyway options.

Product Overview

Number of Poles	3,4
Conductor size range	14 AWG
Rated current	Up to 21 A
Rated voltage	600 V
Protection Class	Up to NEMA: 1, 3, 4, 6P, 12 and IEC IP67, IP68, IP69, IP69K
Ambient Temperature	From -40C to +90C
Insertion Cycles	>100
Hardware choices	Nickel Plated Brass 316 Stainless Steel Passivated

Quick Links:



Part Number Key
Find the part number key on pg 22



Installation Guide
Cable Installation Guide
for Power and Control Cables



Technical Information
Ingress Protection
A Guide to IP and NEMA Type Ratings



Technical Information
Changes to NFPA 79



Technical Information
Interpreting to NFPA 79

A-Size Powerfast Cordsets

Power Tray | Exposed Run 14 AWG Black Cable

Cable Properties	
Cable Approvals	UL: TC-ER, ITC-ER, PLTC-ER, Direct Burial CSA: CIC/TC
Cable Temperature Rating	-40 °C to +90 °C
Cable Features	Sunlight resistant Oil resistant



Connector Style	Product Details	Gender	Orientation	Part Number	Wiring	Contact Assignment
Standard	3 x 14 AWG Cable #RF51671 21 amps 600 V _{AC}	Male	Straight	RSM 34-*M	1. GN/YE 2. BK 3. WH	
		Female	Straight	RKM 34-*M		
		Male, Female Threads	Straight	RYM 34-*M		
		Male/Female	Straight/Straight	RSM RKM 34-*M		
		Male, Female Threads/Female	Straight/Straight	RYM RKM 34-*M		
Alternate Keyway	3 x 14 AWG Cable #RF51671 21 amps 600 V _{AC}	Male	Straight	RSM 34P-*M	1. GN/YE 2. BK 3. WH	
		Female	Straight	RKM 34P-*M		
		Male/Female	Straight/Straight	RSM RKM 34P-*M		
Standard	4 x 14 AWG Cable #RF51672 18 amps 600 V _{AC}	Male	Straight	RKM 44-*M	1. BK 2. WH 3. RD 4. GN/YE	
		Female	Straight	RSM 44-*M		
		Male/Female	Straight/Straight	RSM RKM 44-*M		
Alternate Keyway	4 x 14 AWG Cable #RF51672 18 amps 600 V _{AC}	Male	Straight	RKM 44P-*M	1. BK 2. WH 3. RD 4. GN/YE	
		Female	Straight	RSM 44P-*M		
		Male/Female	Straight/Straight	RSM RKM 44P-*M		

* Length in meters. Standard lengths are 2, 4, 6, 8, 10, 15 meters. Consult factory for other lengths.

** Standard coupling nut material is nickel plated brass "RKM .."; "RKV .." indicates stainless steel.



A-Size Powerfast Cordsets

Power Tray | Exposed Run 14 AWG Black Cable

Cable Properties	
Cable Approvals	UL: TC-ER, ITC-ER, PLTC-ER, Direct Burial
Cable Temperature Rating	-40 °C to +90 °C
Cable Features	Sunlight resistant Oil resistant



Connector Style	Product Details	Gender	Orientation	Part Number	Wiring	Contact Assignment
Standard	3 x 14 AWG Cable #RF51198 21 amps 600 V _{AC}	Male	Straight	RSM 34-*M/S4000	1. GN/YE 2. BK 3. WH	 1 (LG) Male
		Male	Right Angled	WSM 34-*M/S4000		
		Female	Straight	RKM 34-*M/S4000		 1 Female
		Female	Right Angled	WKM 34-*M/S4000		
		Male, Female threads	Straight	RYM 34-*M/S4000		
		Male/Female	Straight/Straight	RSM RKM 34-*M/S4000		
		Male/Female	Right Angled/Right Angled	WSM WKM 34-*M/S4000		
		Male/Female	Straight/Right Angled	RSM WKM 34-*M/S4000		
		Male/Female	Right Angled/Straight	WSM RKM 34-*M/S4000		
Male, Female threads/Female	Straight/Straight	RYM RKM 34-*M/S4000				
Alternate Keyway	3 x 14 AWG Cable #RF51198 21 amps 600 V _{AC}	Male	Straight	RSM 34P-*M/S4000	1. GN/YE 2. BK 3. WH	 1 (LG) Male
		Male	Right Angled	WSM 34P-*M/S4000		
		Female	Straight	RKM 34P-*M/S4000		 1 Female
		Female	Right Angled	WKM 34P-*M/S4000		
		Male/Female	Straight/Straight	RSM RKM 34P-*M/S4000		
		Male/Female	Right Angled/Right Angled	WSM WKM 34P-*M/S4000		
Standard	4 x 14 AWG Cable #RF51750 18 amps 600 V _{AC}	Male	Straight	RSM 44-*M/S4000	1. BK 2. WH 3. RD 4. GN/YE	 1 (LG) Male
		Male	Right Angled	WSM 44-*M/S4000		
		Female	Straight	RKM 44-*M/S4000		 1 Female
		Female	Right Angled	WKM 44-*M/S4000		
		Male, Female threads	Straight	RYM 44-*M/S4000		
		Male/Female	Straight/Straight	RSM RKM 44-*M/S4000		
		Male/Female	Right Angled/Right Angled	WSM WKM 44-*M/S4000		
		Male/Female	Straight/Right Angled	RSM WKM 44-*M/S4000		
		Male/Female	Right Angled/Straight	WSM RKM 44-*M/S4000		
Male, Female threads/Female	Straight/Straight	RYM RKM 44-*M/S4000				
Alternate Keyway	4 x 14 AWG Cable #RF51750 18 amps 600 V _{AC}	Male	Straight	RKM 44P-*M/S4000	1. BK 2. WH 3. RD 4. GN/YE	 1 (LG) Male
		Male	Right Angled	WKM 44P-*M/S4000		
		Female	Straight	RSM 44P-*M/S4000		 1 Female
		Female	Right Angled	WSM 44P-*M/S4000		
		Male/Female	Straight/Straight	RSM RKM 44P-*M/S4000		
		Male/Female	Right Angled/Right Angled	WSM WKM 44P-*M/S4000		
		Male/Female	Straight/Right Angled	RSM WKM 44P-*M/S4000		
		Male/Female	Right Angled/Straight	WSM RKM 44P-*M/S4000		

* Length in meters. Standard lengths are 2, 4, 6, 8, 10, 15 meters. Consult factory for other lengths.

** Standard coupling nut material is nickel plated brass "RKM .."; "RKV .." indicates stainless steel.

A-Size Powerfast Receptacles

14 AWG PVC Conductors



Connector Style	Product Details	Gender	Mounting Thread	Mounting Orientation	Part Number	Wiring	Contact Assignment
Standard	3 x 14 AWG, PVC conductors 21 amps 600 V _{AC}	Male	1/2 - 14 NPT	Front	RSF 34-*M/NPT	1. GN/YE 2. BK 3. WH	
		Female	1/2 - 14 NPT	Front	RKF 34-*M/NPT		
		Female, Male threads	1/2 - 14 NPT	Front	RXF 34-*M/NPT		
Alternate Keyway		Male	1/2 - 14 NPT	Front	RSF 34P-*M/NPT		
		Female	1/2 - 14 NPT	Front	RKF 34P-*M/NPT		
		Female, Male threads	1/2 - 14 NPT	Front	RXF 34P-*M/NPT		
Standard	4 x 14 AWG, PVC conductors 18 amps 600 V _{AC}	Male	1/2 - 14 NPT	Front	RSF 44-*M/NPT	1. BK 2. WH 3. RD 4. GN/YE	
		Female	1/2 - 14 NPT	Front	RKF 44-*M/NPT		
		Female, Male threads	1/2 - 14 NPT	Front	RXF 44-*M/NPT		
Alternate Keyway		Male	1/2 - 14 NPT	Front	RSF 44P-*M/NPT		
		Female	1/2 - 14 NPT	Front	RKF 44P-*M/NPT		
		Female, Male threads	1/2 - 14 NPT	Front	RXF 44P-*M/NPT		

* Length in meters. Standard lead lengths are 0.5 meters. Consult factory for other lengths.

Standard housing material is nickel plated brass. For stainless steel housings add a V following receptacle designation. (ex: RKFV 44-*M/NPT)

A-Size Powerfast Field Wireable

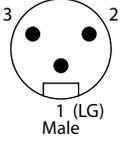
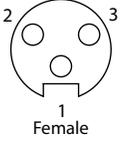
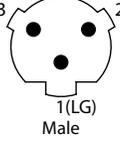
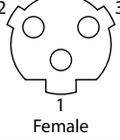
14 AWG Screw Terminal



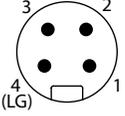
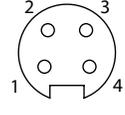
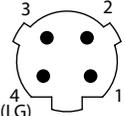
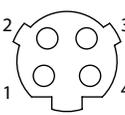
Connector Style	Product Details	Gender	Orientation	Part Number	Wiring	Contact Assignment
Standard	3 x 14 AWG, (max) 15 A (14 AWG conductors) 600 V _{AC}	Male	Straight	BS 4131-0/13.5	1. GN/YE 2. BK 3. WH	
		Male	Right Angle	BS 4231-0/13.5		
		Female	Straight	B 4131-0/13.5		
		Female	Right Angle	B 4231-0/13.5		
	4 x 14 AWG, (max) 15 A (14 AWG conductors) 600 V _{AC}	Male	Straight	BS 4141-0/13.5	1. BK 2. WH 3. RD 4. GN/YE	
		Male	Right Angle	BS 4241-0/13.5		
		Female	Straight	B 4141-0/13.5		
		Female	Right Angle	B 4241-0/13.5		
		Male	Straight	BS 4141-1 8-17MM		
		Female	Straight	B 4141-1 8-17MM		

A-Size Powerfast Tees

Cable Properties	
Cable Approvals	UL: TC-ER, ITC-ER, PLTC-ER, Direct Burial
Cable Temperature Rating	-40 °C to +90 °C
Cable Features	Sunlight resistant Oil resistant

Connector Style	Product Details	Configuration	Part Number	Contact Assignment
Standard Keyway	3 x 14 AWG 21 amps 600 V _{AC}		T-34-RSM/RKM/RKM	 1 (LG) Male  1 Female
Alternate Keyway			T-34-RSMP/RKMP/RKMP	 1 (LG) Male  1 Female

A-Size Powerfast Tees

Connector Style	Product Details	Configuration	Part Number	Contact Assignment
Standard Keyway	4 x 14 AWG 18 amps 600 V _{AC}		T-44-RSM/RKM/RKM	 <p>Male</p>  <p>Female</p>
Alternate Keyway			T-44-RSMP/RKMP/RKMP	 <p>Male</p>  <p>Female</p>

A-Size Powerfast Disconnect Switches

14 AWG Conductors



Connector Style	Pin Count	Product Details	Part Number
Standard	3	3 x 14 AWG 15 A	RSF RKF 34/DS
M12 Auxiliary Output	3	600 V _{AC}	RSF RKF 34/DS/AUX
Standard	4	4 x 14 AWG 15 A	RSF RKF 44/DS
M12 Auxiliary Output	4	600 V _{AC}	RSF RKF 44/DS/AUX

Accessories

A-Size 7/8" Powerlok



Part Number	Product Details
LOCK-A POWER	Nylon locking guard for straight A-Size Powerfast connectors

A-Size 7/8" Closure caps



Part Number	Mates To	Product Details
RKM-CC	Male	7/8-16 UN Thread, Nickel Plated Brass, 6" Stainless Steel Loop Lanyard
RSM-CC	Female	7/8-16 UN Thread, Nickel Plated Brass, 6" Stainless Steel Loop Lanyard
RKF-CC	Male	7/8-16 UN Thread, Nickel Plated Brass, 6" Stainless Steel Lanyard with Eyelet
RSF-CC	Female	7/8-16 UN Thread, Nickel Plated Brass, 6" Stainless Steel Lanyard with Eyelet
RKF-MC	Male	7/8-16 UN Thread, Nickel Plated Brass, No Lanyard
RSF-MC	Female	7/8-16 UN Thread, Nickel Plated Brass, No Lanyard
RKMV-CC	Male	7/8-16 UN Thread, Stainless Steel, 6" Stainless Steel Loop Lanyard
RSMV-CC	Female	7/8-16 UN Thread, Stainless Steel, 6" Stainless Steel Loop Lanyard
RKFV-CC	Male	7/8-16 UN Thread, Stainless Steel, 6" Stainless Steel Lanyard with Eyelet
RSFV-CC	Female	7/8-16 UN Thread, Stainless Steel, 6" Stainless Steel Lanyard with Eyelet
RKFV-MC	Male	7/8-16 UN Thread, Stainless Steel, No Lanyard
RSFV-MC	Female	7/8-16 UN Thread, Stainless Steel, No Lanyard



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