



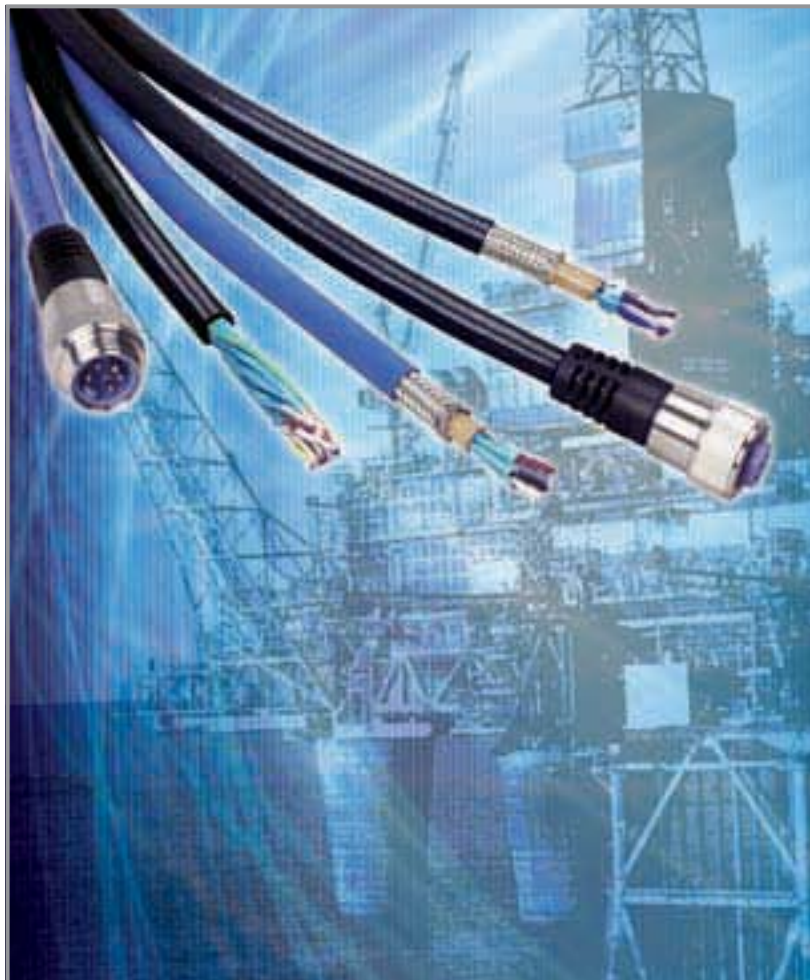
Cables and Cordsets for Extreme Applications

TURCK *extremelife* connectors are approved by DNV and ABS for use in marine shipboard environments. **TURCK** also has an entire line of junction boxes for wiring consolidation. From off-the-shelf junctions for 4-20 mA transmitters, to custom boxes for any application, **TURCK** reduces costs by making wiring faster, easier and more reliable.



- ABS Approved
- Certified per IEEE-45
- UL listed for Marine Applications to STD UL 1309
- Meets IEC 332-3 Category A Flame Test
- CSA listed to C22.2 No. 245
- Jacket Material Provides Impact Protection to -50°C (-58°F)
- Available in Multiple Configurations

extreme
life®



extremelife[®] cables are heavy duty for extreme temperature environments and provide excellent resistance to extreme cold temperatures and oilfield drilling muds. **TURCK** offers multiple single and twisted pair conductor options. **extremelife** cables are available in two jacket types, **extremelife-25** and **extremelife-55**.

The following characteristics are specific to each cable.

Characteristics	<i>extremelife-25</i>	<i>extremelife-55</i>
Cable Gage Range	16 to 22	
UL Rating	UL1309	
CSA Rating	CSA 22.2 No. 245	
ABS Approval No.	03-HS400763-PDA	
IEEE Approvals	IEEE 45-1998 and IEEE 1580-2001	
Flexible Stranding	Yes	
Standard Insulation	T75 and T90 UL and CSA, T75 IEEE	
XLPE Insulation	110X for increased electrical properties required for network applications	
Flame Retardancy	IEEE 1202/FT4 and IEC 332-3 Category A	
Cold Bend Pass Temperature	-40°C (-40°F)	-55°C (-67°F)
Cold Impact Pass Temperature	Good	-50°C (-58°F)
Cut through and Abrasion Resistance	Good	Excellent
Moisture and Oil Resistance	Excellent	
Installation Handling	Good	
Oilfield Drilling Mud Resistance	Excellent	
Braided Armor	Available with or without	
Sunlight Resistance	Yes	



Process Automation



extremelife® cables have been extensively tested in various drilling muds/fluids. Samples of five different drilling fluids were used to evaluate how **extremelife** cables handle harsh environments. Cable samples were placed in the muds and put in a test oven at +65.6°C (+150°F). Shrink/swell and tensile strength/elongation were monitored throughout a 28 day aging test.

The **extremelife** cables, with their exclusive jacket materials, were compared with the industry standard neoprene cables. All tested cables passed the tensile strength and elongation tests. The **extremelife** cables proved to be much more stable in size through the tests when compared to the neoprene jacketed cables.

Drilling Mud Types Used:

- Water based
- Synthetic based (two types)
- Diesel based
- Mineral oil based

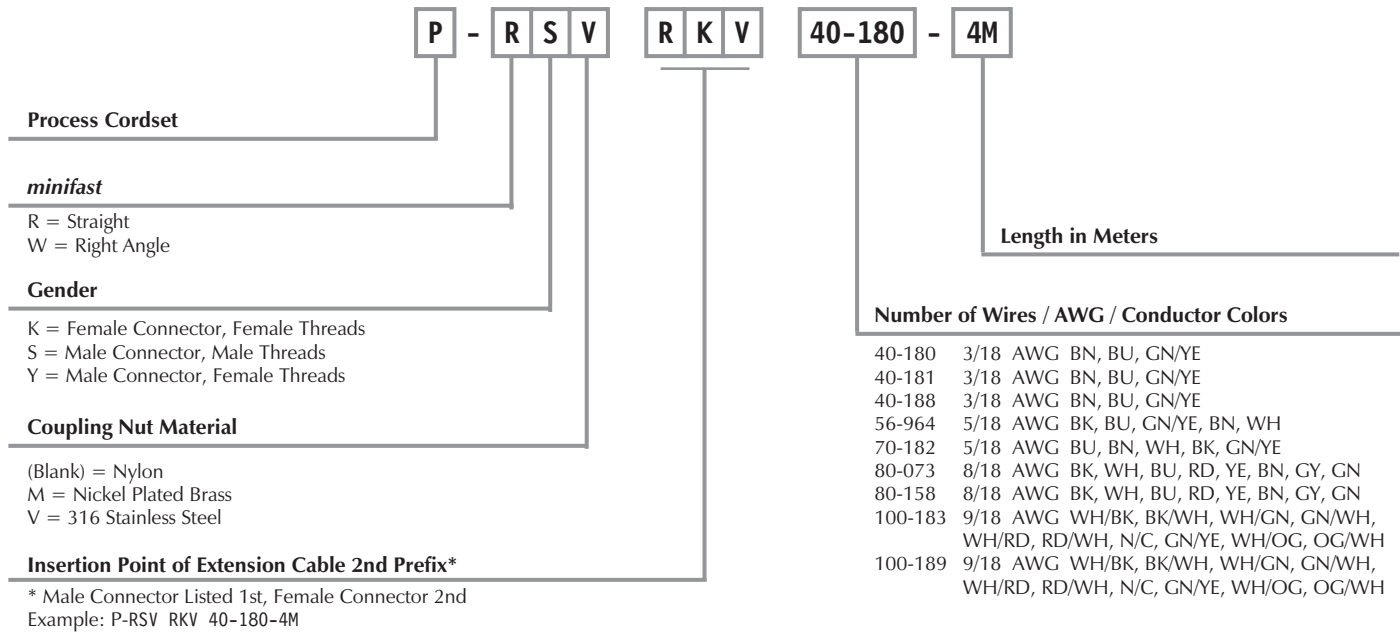


extremelife Cables:

- Standard cables are stocked for quick delivery, and custom designs ship within 6 to 10 weeks.
- Multiple designs and custom configurations can be built using 16 to 22 AWG wires.
- Bronze armor styles combined with stable tinned-copper armor.
- Cost effective cables, since **extremelife** can be made with 22 AWG conductors and tinned-copper armor.
- Assorted conductor sizes and insulation materials allow usage in network applications.

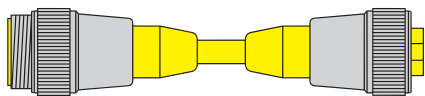
minifast[®] extremelife[®] Extension Cordset Part Number Key - Control Cable

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult Factory for catalog items not identified.



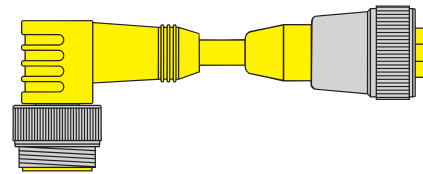
Extension Examples:

P - R S V | R K V | 40-180 - 4M



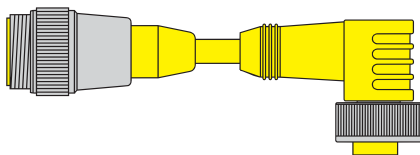
RSV .. - RKV ..

P - W S V | R K V | 40-180 - 4M



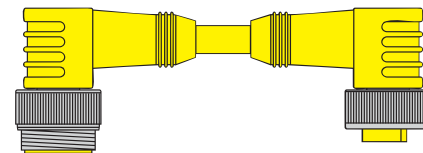
WSV .. - RKV ..

P - R S V | W K V | 40-180 - 4M



RSV .. - WKV ..

P - W S V | W K V | 40-180 - 4M



WSV .. - WKV ..

4 and 5-Wire *minifast*® *extremelife*® Control Cordsets

- Straight Female Connectors
- NEMA 1, 3, 4, 6P and IEC IP 67 Protection



Housing	Part Number	Cable	Features	Pinouts	
	P-RKV 40-180-*M	PVC Black 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 8.4 mm OD Cable #RF51180-*M [†]	<i>extremelife-25</i> UL 1309 approved 2-wire Analog	1. BU 2. BN 3. Drain 4. GN/YE	
	P-RKV 40-181-*M	PVC Black, Braided Armor 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 12.5 mm OD Cable #RF51181-*M [†]	<i>extremelife-25</i> Braided Armor Cable UL 1309 approved 2-wire Analog		
	P-RKV 40-188-*M	TPE Black 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 8.4 mm OD Cable #RF51188-*M [†]	<i>extremelife-55</i> UL 1309 approved 2-wire Analog		
	P-RKV 56-964-*M	PVC Blue 5x18 AWG, Foil/Drain 90°C 300 V, 9 A 10.4 mm OD Cable #RF50964-*M [†]	<i>extremelife-25</i> UL 1309 approved 5-wire shielded	1. BK 2. BU 3. GN/YE 4. BN 5. WH	

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is 316 stainless steel "P-RKV .."; "P-RKM .." indicates nickel plated brass.
[†] See pages K236 - K244 for *reelfast*® cable information.

7, 8, and 9-Wire *minifast*® *extremelife*® Control Cordsets

- Straight Female Connectors
- NEMA 1, 3, 4, 6P and IEC IP 67 Protection



Housing	Part Number	Cable	Features	Pinout
	P-RKV 70-182-*M	PVC Black 5x18 AWG, 2 STP with GND 90°C 300 V, 9 A 10.4 mm OD Cable #RF51182-*M†	<i>extremelife-25</i> UL 1309 approved 2-wire Analog x 2	<ol style="list-style-type: none"> 1. BU 2. BN 3. Drain 4. WH 5. BK 6. Drain 7. GN/YE
	P-RKV 80-073-*M	PVC Blue, Braided Armor 8x18 AWG, 4 STP 90°C 300 V, 9 A 17.8 mm OD Cable #RF51073-*M†	<i>extremelife-25</i> Braided Armor Cable UL 1309 approved 2-wire Analog x 4	<ol style="list-style-type: none"> 1. BK 2. WH 3. BU 4. RD 5. YE 6. BN 7. GY 8. GN
	P-RKV 80-158-*M	TPE Black 8x18 AWG, 4 STP 90°C 300 V, 9 A 15.1 mm OD Cable #RF51158-*M†	<i>extremelife-55</i> UL 1309 approved 2-wire Analog x 4	<ol style="list-style-type: none"> 1. BK 2. WH 3. BU 4. RD 5. YE 6. BN 7. GY 8. GN
	P-RKV 100-183-*M	PVC Black 9x18 AWG, 4 STP with GND 90°C 300 V, 7 A 13.2 mm OD Cable #RF51183-*M†	<i>extremelife-25</i> UL 1309 approved 2-wire Analog x 4	<ol style="list-style-type: none"> 1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. RD/WH 7. N/C 8. GN/YE 9. WH/OG 10. OG/WH
	P-RKV 100-189-*M	TPE Black 9x18 AWG, 4 STP with GND 90°C 300 V, 7 A 15.1 mm OD Cable #RF51189-*M†	<i>extremelife-55</i> UL 1309 approved 2-wire Analog x 4	<ol style="list-style-type: none"> 1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. RD/WH 7. N/C 8. GN/YE 9. WH/OG 10. OG/WH

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

Standard coupling nut material is 316 stainless steel "P-RKV .."; "P-RKM .." indicates nickel plated brass.

† See pages K236 - K244 for *reelfast*® cable information.

4 and 5-Wire *minifast*® *extremelife*® Control Cordsets

- Right Angle Female Connectors
- NEMA 1, 3, 4, 6P and IEC IP 67 Protection



Housing	Part Number	Cable	Features	Pinouts
	P-WKV 40-180-*M	PVC Black 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 8.4 mm OD Cable #RF51180-*M [†]	<i>extremelife-25</i> UL 1309 approved 2-wire Analog	
	P-WKV 40-181-*M	PVC Black, Braided Armor 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 12.5 mm OD Cable #RF51181-*M [†]	<i>extremelife-25</i> Braided Armor Cable UL 1309 approved 2-wire Analog	
	P-WKV 40-188-*M	TPE Black 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 8.4 mm OD Cable #RF51188-*M [†]	<i>extremelife-55</i> UL 1309 approved 2-wire Analog	
	P-WKV 56-964-*M	PVC Blue 5x18 AWG, Foil/Drain 90°C 300 V, 9 A 10.4 mm OD Cable #RF50964-*M [†]	<i>extremelife-25</i> UL 1309 approved 5-wire shielded	

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is 316 stainless steel "P-WKV .."; "P-WKM .." indicates nickel plated brass.
[†] See pages K236 - K244 for *reelfast*® cable information.

7, 8, and 9-Wire *minifast*® *extremelife*® Control Cordsets

- Right Angle Female Connectors
- NEMA 1, 3, 4, 6P and IEC IP 67 Protection



Housing	Part Number	Cable	Features	Pinouts
	P-WKV 70-182-*M	PVC Black 5x18 AWG, 2 STP with GND 90°C 300 V, 9 A 10.4 mm OD Cable #RF51182-*M†	<i>extremelife-25</i> UL 1309 approved 2-wire Analog x 2	<ol style="list-style-type: none"> 1. BU 2. BN 3. Drain 4. WH 5. BK 6. Drain 7. GN/YE
	P-WKV 80-073-*M	PVC Blue, Braided Armor 8x18 AWG, 4 STP 90°C 300 V, 9 A 17.8 mm OD Cable #RF51073-*M†	<i>extremelife-25</i> Braided Armor Cable UL 1309 approved 2-wire Analog x 4	<ol style="list-style-type: none"> 1. BK 2. WH 3. BU 4. RD 5. YE 6. BN 7. GY 8. GN
	P-WKV 80-158-*M	TPE Black 8x18 AWG, 4 STP 90°C 300 V, 9 A 15.1 mm OD Cable #RF51158-*M†	<i>extremelife-55</i> UL 1309 approved 2-wire Analog x 4	<ol style="list-style-type: none"> 1. BK 2. WH 3. BU 4. RD 5. YE 6. BN 7. GY 8. GN
	P-WKV 100-183-*M	PVC Black 9x18 AWG, 4 STP with GND 90°C 300 V, 7 A 13.2 mm OD Cable #RF51183-*M†	<i>extremelife-25</i> UL 1309 approved 2-wire Analog x 4	<ol style="list-style-type: none"> 1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. RD/WH 7. N/C 8. GN/YE 9. WH/OG 10. OG/WH
	P-WKV 100-189-*M	TPE Black 9x18 AWG, 4 STP with GND 90°C 300 V, 7 A 15.1 mm OD Cable #RF51189-*M†	<i>extremelife-55</i> UL 1309 approved 2-wire Analog x 4	<ol style="list-style-type: none"> 1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. RD/WH 7. N/C 8. GN/YE 9. WH/OG 10. OG/WH

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

Standard coupling nut material is 316 stainless steel "P-WKV .."; "P-WKM .." indicates nickel plated brass.

† See pages K236 - K244 for *reelfast*® cable information.

4 and 5-Wire *minifast*® *extremelife*® Control Cordsets

- Straight Male Connectors
- NEMA 1, 3, 4, 6P and IEC IP 67 Protection



Housing	Part Number	Cable	Features	Pinouts
	P-RSV 40-180-*M	PVC Black 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 8.4 mm OD Cable #RF51180-*M†	<i>extremelife-25</i> UL 1309 approved 2-wire Analog	
	P-RSV 40-181-*M	PVC Black, Braided Armor 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 12.5 mm OD Cable #RF51181-*M†	<i>extremelife-25</i> Braided Armor Cable UL 1309 approved 2-wire Analog	
	P-RSV 40-188-*M	TPE Black 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 8.4 mm OD Cable #RF51188-*M†	<i>extremelife-55</i> UL 1309 approved 2-wire Analog	
	P-RSV 56-964-*M	PVC Blue 5x18 AWG, Foil/Drain 90°C 300 V, 9 A 10.4 mm OD Cable #RF50964-*M†	<i>extremelife-25</i> UL 1309 approved 5-wire shielded	

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is 316 stainless steel "P-RSV .."; "P-RSM .." indicates nickel plated brass.
† See pages K236 - K244 for *reelfast*® cable information.

7, 8, and 9-Wire *minifast*® *extremelife*® Control Cordsets

- Straight Male Connectors
- NEMA 1, 3, 4, 6P and IEC IP 67 Protection



Housing	Part Number	Cable	Features	Pinouts
	P-RSV 70-182-*M	PVC Black 5x18 AWG, 2 STP with GND 90°C 300 V, 9 A 10.4 mm OD Cable #RF51182-*M†	<i>extremelife-25</i> UL 1309 approved 2-wire Analog x 2	<ol style="list-style-type: none"> 1. BU 2. BN 3. Drain 4. WH 5. BK 6. Drain 7. GN/YE
	P-RSV 80-073-*M	PVC Blue, Braided Armor 8x18 AWG, 4 STP 90°C 300 V, 9 A 17.8 mm OD Cable #RF51073-*M†	<i>extremelife-25</i> Braided Armor Cable UL 1309 approved 2-wire Analog x 4	<ol style="list-style-type: none"> 1. BK 2. WH 3. BU 4. RD 5. YE 6. BN 7. GY 8. GN
	P-RSV 80-158-*M	TPE Black 8x18 AWG, 4 STP 90°C 300 V, 9 A 15.1 mm OD Cable #RF51158-*M†	<i>extremelife-55</i> UL 1309 approved 2-wire Analog x 4	<ol style="list-style-type: none"> 1. BK 2. WH 3. BU 4. RD 5. YE 6. BN 7. GY 8. GN
	P-RSV 100-183-*M	PVC Black 9x18 AWG, 4 STP with GND 90°C 300 V, 7 A 13.2 mm OD Cable #RF51183-*M†	<i>extremelife-25</i> UL 1309 approved 2-wire Analog x 4	<ol style="list-style-type: none"> 1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. RD/WH 7. N/C 8. GN/YE 9. WH/OG 10. OG/WH
	P-RSV 100-189-*M	TPE Black 9x18 AWG, 4 STP with GND 90°C 300 V, 7 A 15.1 mm OD Cable #RF51189-*M†	<i>extremelife-55</i> UL 1309 approved 2-wire Analog x 4	<ol style="list-style-type: none"> 1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. RD/WH 7. N/C 8. GN/YE 9. WH/OG 10. OG/WH

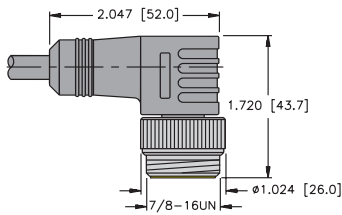
* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.

Standard coupling nut material is 316 stainless steel "P-RSV .."; "P-RSM .." indicates nickel plated brass.

† See pages K236 - K244 for *reelfast*® cable information.

4 and 5-Wire *minifast*® *extremelife*® Control Cordsets

- Right Angle Male Connectors
- NEMA 1, 3, 4, 6P and IEC IP 67 Protection



Housing	Part Number	Cable	Features	Pinouts	
	P-WSV 40-180-*M	PVC Black 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 8.4 mm OD Cable #RF51180-*M [†]	<i>extremelife-25</i> UL 1309 approved 2-wire Analog	1. BU 2. BN 3. Drain 4. GN/YE	
	P-WSV 40-181-*M	PVC Black, Braided Armor 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 12.5 mm OD Cable #RF51181-*M [†]	<i>extremelife-25</i> Braided Armor Cable UL 1309 approved 2-wire Analog		
	P-WSV 40-188-*M	TPE Black 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 8.4 mm OD Cable #RF51188-*M [†]	<i>extremelife-55</i> UL 1309 approved 2-wire Analog		
	P-WSV 56-964-*M	PVC Blue 5x18 AWG, Foil/Drain 90°C 300 V, 9 A 10.4 mm OD Cable #RF50964-*M [†]	<i>extremelife-25</i> UL 1309 approved 5-wire shielded	1. BK 2. BU 3. GN/YE 4. BN 5. WH	

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is 316 stainless steel "P-WSV .."; "P-WSM .." indicates nickel plated brass.
[†] See pages K236 - K244 for *reelfast*® cable information.

7, 8 and 9-Wire *minifast*[®] *extremelife*[®] Control Cordsets

- Right Angle Male Connectors
- NEMA 1, 3, 4, 6P and IEC IP 67 Protection



Housing	Part Number	Cable	Features	Pinouts
	P-WSV 70-182-*M	PVC Black 5x18 AWG, 2 STP with GND 90°C 300 V, 9 A 10.4 mm OD Cable #RF51182-*M [†]	<i>extremelife-25</i> UL 1309 approved 2-wire Analog x 2	<ol style="list-style-type: none"> 1. BU 2. BN 3. Drain 4. WH 5. BK 6. Drain 7. GN/YE
	P-WSV 80-073-*M	PVC Blue, Braided Armor 8x18 AWG, 4 STP 90°C 300 V, 9 A 17.8 mm OD Cable #RF51073-*M [†]	<i>extremelife-25</i> Braided Armor Cable UL 1309 approved 2-wire Analog x 4	<ol style="list-style-type: none"> 1. BK 2. WH 3. BU 4. RD 5. YE 6. BN 7. GY 8. GN
	P-WSV 80-158-*M	TPE Black 8x18 AWG, 4 STP 90°C 300 V, 9 A 15.1 mm OD Cable #RF51158-*M [†]	<i>extremelife-55</i> UL 1309 approved 2-wire Analog x 4	<ol style="list-style-type: none"> 1. BU 2. BN 3. Drain 4. WH 5. BK 6. Drain 7. GN/YE
	P-WSV 100-183-*M	PVC Black 9x18 AWG, 4 STP with GND 90°C 300 V, 7 A 13.2 mm OD Cable #RF51183-*M [†]	<i>extremelife™-25</i> UL 1309 approved 2-wire Analog x 4	<ol style="list-style-type: none"> 1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. RD/WH 7. N/C 8. GN/YE 9. WH/OG 10. OG/WH
	P-WSV 100-189-*M	TPE Black 9x18 AWG, 4 STP with GND 90°C 300 V, 7 A 15.1 mm OD Cable #RF51189-*M [†]	<i>extremelife-55</i> UL 1309 approved 2-wire Analog x 4	<ol style="list-style-type: none"> 1. BU 2. BN 3. Drain 4. WH 5. BK 6. Drain 7. GN/YE

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

Standard coupling nut material is 316 stainless steel "P-WSV .."; "P-WSM .." indicates nickel plated brass.

[†] See pages K236 - K244 for *reelfast*[®] cable information.