



Thick Trunk Cable



Mini to Mini Thick Patchcord

Description

Rockwell Automation thick trunk cable is available in raw spools as well as specified lengths with any of several connectors preattached. Cordsets and patchcords are prewired and factory molded to assure reliable connection. The thick trunk cables provide a rugged and durable foundation for DeviceNet systems. Although typically used in thick trunk systems as trunkline only, thick cable can also be used for DeviceNet drops. CL1 600V rated ODVA Type V cable is also available in spools only. ODVA Type V cable provides greater flexibility in applications requiring higher voltage jacket ratings.

Features

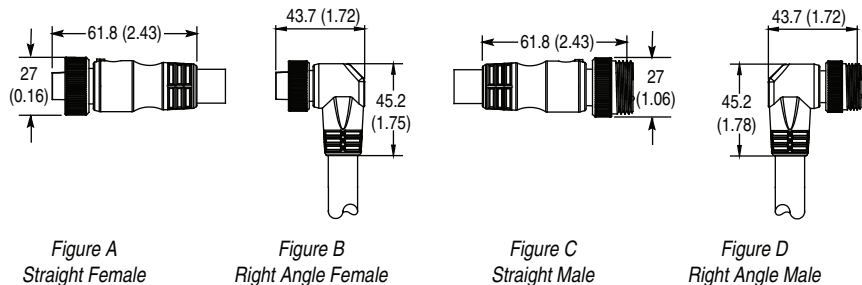
- PVC jacket offers good oil and chemical resistance
- Watertight connections (NEMA 4, 6P; IP67; IP69K)
- Gold-plated contacts
- Ratcheting coupling nut for vibration resistance
- Flex rated cable designed to handle five million cycles on a roll test

Specifications

| | |
|---------------------------|---|
| Certifications | UL Recognized and CSA Certified |
| Mechanical | |
| Coupling Nut Material | Epoxy-coated zinc |
| Jacket Material | Grey PVC |
| No. of Conductors | 1 pair 15 AWG, 1 pair 18 AWG, and drain |
| Contact Material | Gold-plated machined brass |
| Cable Diameter [mm (in.)] | Thick: 12.2 (0.48); ODVA Type V: 13.5 (0.53) |
| Bend Radius | 10 x diameter |
| Electrical | |
| Cable Rating | Thick: UL-Type PLTC 300V or CM 75 °C (167 °F) or AWM style 2464, CSA- AWM I/II A/B 80 °C (176 °F) 300V FT1, Class 2 Type Thick Flex Rated: UL-Type PLTC 75C or AWM 80C 600V, CSA AWM I/II A/B 80C 600V, FT4 Oil Res II ODVA Type V, Open-Wiring Compliant: UL 600V TC-ER 75C Sunlight Resistant, c(UL) AWM I/II A/B 75C 600V FT1 ODVA Type V Cable: Type V Trunk Cable, UL 600V Type TC-ER Sunlight Resistant 75 °C Dry Open Wiring, CSA AWM I/II A/B 75 °C 600V FT1, Oil Resistant, Class 1 Type |
| Assembly Rating | Thick: 300V, 8 A (4A NEC) |
| Environmental | |
| Enclosure Type Rating | NEMA 1, 2, 3, 4, 6P, 12, 13; IP67; 1200 psi (8720 kPa) washdown |
| Cable Temperature [C (F)] | -20...+70 ° (-15...+158 °) |

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.

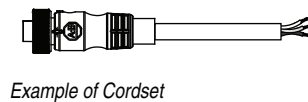


*Figure A
Straight Female*

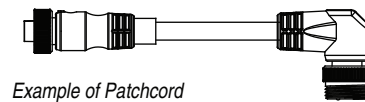
*Figure B
Right Angle Female*

*Figure C
Straight Male*

*Figure D
Right Angle Male*



Example of Cordset





Example of Patchcord

Cordsets & Patchcords, Round Media Cable Spools

Thick Trunk Cable

Pinout and Color Code

| | | Face View Pinout | |
|------------|--|---|---|
| | |  |  |
| | | Mini Connector | |
| | | Female | Male |
| Color Code | | 1 Drain 2 Red (V+) 3 Black (V-) | 4 White (CAN_H) 5 Blue (CAN_L) |

Product Selection

Thick Cable

| Female Connector | Cat. No. | | |
|-----------------------------|----------------|---------------------------|---------------------------------------|
| | Male Connector | | |
| | Cable | Straight Mini (Figure C)* | Right Angle Mini (Figure D)* |
| Cable | ‡ | 1485C-P1-A50 | 1485C-P1M5-C 1485C-P1W5-C |
| Mini Straight (Figure A) | * | 1485C-P1N5-C | 1485C-P1N5-M5 1485C-P1W5-N5 |
| Mini Right Angle (Figure A) | * | 1485C-P1Z5-C | 1485C-P1M5-Z5 1485C-P1W5-Z5 |

Flex-Rated Thick Cable

| Female Connector | Cat. No. | | |
|-----------------------------|----------------|---------------------------|--------------------------------|
| | Male Connector | | |
| | Cable | Straight Mini (Figure C)* | Right Angle Mini (Figure D)* |
| Cable | ‡ | 1485C-F1A50 | 1485C-F1M5-C 1485C-F1W5-C |
| Mini Straight (Figure A) | * | 1485C-F1N5-C | 1485C-F1N5-M5 1485C-F1W5-N5 |
| Mini Right Angle (Figure A) | * | 1485C-F1Z5-C | 1485C-F1M5-Z5 1485C-F1W5-Z5 |

‡ Replace 50 (50 m (164ft)) with 150 (150 m (492 ft)), 300 (300 m (984 ft)), or 500 (500 m (1640 ft)).

* Replace 1 (desired length in meters (i.e. 1485C-P1N5-M5 for a 1 m (3.28 ft) cable) with 2 m (6.56 ft), 3 m (9.8 ft), 4 m (13 ft), 5 m (16.4 ft), 6 m (19.7 ft), 8 m (26 ft), 10 m (32.8 ft), 12 m (39 ft), 18 m (59 ft), 24 m (78.7 ft), 30 m (98 ft) for standard cable lengths.

Note: Stainless steel versions may be ordered by adding **S** to the cat. no. (e.g., 1485**CS**-P1N5-M5).

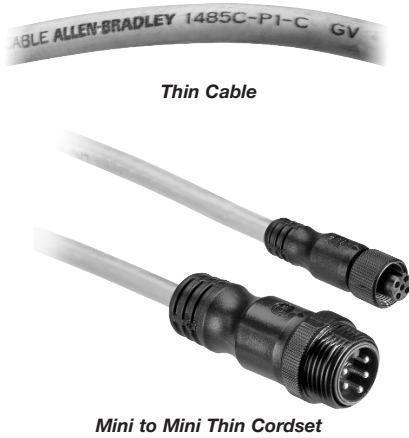
To order a red DeviceNet cable, replace **P** with **R** in the cat. no. (e.g., 1485C-**P**1N5-C becomes 1485C-**R**1N5-C).

ODVA Type V Cable

| Description | Cat. No. |
|-------------|----------------|
| Cable Spool | * 1485C-P1BS75 |

* Replace 75 (75 m (246 ft)) with 200 (200 m (656 ft)) or 420 (420 m (1378 ft)) for other standard lengths.

Note: Distance performance of this cable type is limited to that of flat cable.



Specifications

| | |
|---------------------------|--|
| Certifications | UL Recognized and CSA Certified |
| Mechanical | |
| Coupling Nut Material | Epoxy-coated zinc |
| Jacket Material | Yellow CPE (chemical resistant) or grey PVC |
| No. of Conductors | 1 pair 22 AWG, 1 pair 24 AWG and drain |
| Contact Material | Mini: Gold plated machined brass; Micro: Gold over nickel plated brass |
| Cable Diameter [mm (in.)] | 6.9 (0.27) |
| Bend Radius | 10 x diameter |
| Current, Max | 4 A |
| Electrical | |
| Cable Rating | Grey PVC: UL CL2 or CMG 75 °C (167 °F) or AWM 600V or c(UL) CMG or AWM I/II 80 °C (176 °F) 300V FT4; Grey High-Flex PVC: UL CL2 75 °C (167 °F) or AWM 20201 80 °C (176 °F) 600V or CSA AWM I/II 80 °C (176 °F) 600V FT4; Yellow CPE: UL- CL2 or CM 75 °C (167 °F) or AWM 20869 80 °C (176 °F), CSA- AWM I/II A/B 80 °C (176 °F) 300V FT4 Oil Res II |
| Assembly Rating | 250V, 4 A |
| Environmental | |
| Enclosure Type Rating | NEMA 1, 2, 3, 4, 6P, 12, 13; IP67; 1200 psi (8720 kPa) washdown |
| Cable Temperature [C (F)] | -20...+70 ° (-15...+158 °) |

Description

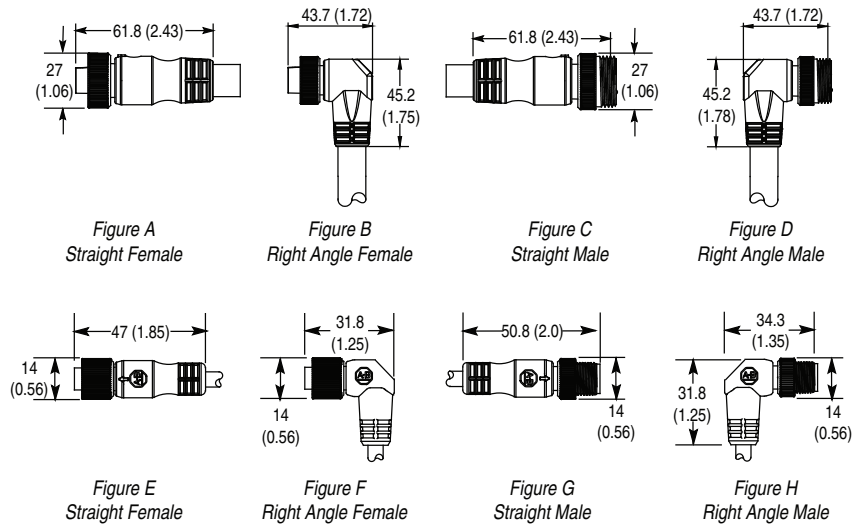
Rockwell Automation offers thin cable in spools and pre-molded DeviceNet cables in various lengths for use as trunk or drops. Designed in a heavy duty, chemical resistant yellow CPE jacket, or standard grey PVC jacket, these cables have been designed specifically for harsh industrial environments including those applications involving dirt, oil, and fluids. The molded construction and gold-plated connector pins make for reliable connections that are impervious to most external contaminants.

Features

- Grey PVC jacket for standard applications and yellow CPE jacket for more demanding environments
- Water tight performance to a rating of IP67
- Inserts are securely bonded to the connector body for superior side load and pull out resistance
- Gold-plated contacts for corrosion resistance
- Ratcheting coupling nut for vibration resistance

Approximate Dimensions

Dimensions are in millimeters (inches). Illustrations are not drawn to scale.



Cordsets & Patchcords, Round Media Cable Spools

Thin Trunk Cable

Pinout and Color Code

| Face View Pinout | | | | |
|------------------|-----------------------|-----------------------------------|------|--------------|
| | | | | |
| Mini Connector | | Micro Connector | | |
| Female | Male | Female | Male | |
| | 1 Drain 2 Red (V+) | 4 White (CAN_H) 5 Blue (CAN_L) | | 3 Black (V-) |
| Color Code | | | | |

Product Selection

Grey PVC Thin Cable

| | | Cat. No. | | | | |
|------------------------------|----------------|---------------------------|------------------------------|----------------------------|-------------------------------|--|
| | | Male Connector | | | | |
| Female Connector | Cable | Mini Straight (Figure C)* | Mini Right Angle (Figure D)* | Micro Straight (Figure G)* | Micro Right Angle (Figure H)* | |
| Cable | ‡ 1485C-P1CG50 | 1485G-P1M5-C | 1485G-P1W5-C | 1485G-P1D5-C | 1485G-P1F5-C | |
| Mini Straight (Figure A) | * 1485G-P1N5-C | 1485G-P1N5-M5 | 1485G-P1W5-N5 | 1485G-P1D5-N5 | 1485G-P1N5-F5 | |
| Mini Right Angle (Figure B) | * 1485G-P1Z5-C | 1485G-P1M5-Z5 | 1485G-P1W5-Z5 | 1485G-P1D5-Z5 | 1485G-P1F5-Z5 | |
| Micro Straight (Figure E) | * 1485G-P1R5-C | 1485G-P1M5-R5 | 1485G-P1W5-R5 | 1485G-P1R5-D5 | 1485G-P1R5-F5 | |
| Micro Right Angle (Figure F) | * 1485G-P1V5-C | 1485G-P1M5-V5 | 1485G-P1W5-V5 | 1485G-P1D5-V5 | 1485G-P1F5-V5 | |

Yellow CPE Thin Cable

| | | Cat. No. | | | | |
|------------------------------|----------------|---------------------------|------------------------------|----------------------------|-------------------------------|--|
| | | Male Connector | | | | |
| Female Connector | Cable | Mini Straight (Figure C)* | Mini Right Angle (Figure D)* | Micro Straight (Figure G)* | Micro Right Angle (Figure H)* | |
| Cable | ‡ 1485C-P1C50 | 1485R-P1M5-C | 1485R-P1W5-C | 1485R-P1D5-C | 1485R-P1F5-C | |
| Mini Straight (Figure A) | * 1485R-P1N5-C | 1485R-P1N5-M5 | 1485R-P1W5-N5 | 1485R-P1D5-N5 | 1485R-P1N5-F5 | |
| Mini Right Angle (Figure B) | * 1485R-P1Z5-C | 1485R-P1M5-Z5 | 1485R-P1W5-Z5 | 1485R-P1D5-Z5 | 1485R-P1F5-Z5 | |
| Micro Straight (Figure E) | * 1485R-P1R5-C | 1485R-P1M5-R5 | 1485R-P1W5-R5 | 1485R-P1R5-D5 | 1485R-P1R5-F5 | |
| Micro Right Angle (Figure F) | * 1485R-P1V5-C | 1485R-P1M5-V5 | 1485R-P1W5-V5 | 1485R-P1D5-V5 | 1485R-P1F5-V5 | |

Flex-Rated Grey PVC Thin Cable

| | | Cat. No. | | | | |
|------------------------------|----------------|---------------------------|------------------------------|----------------------------|-------------------------------|--|
| | | Male Connector | | | | |
| Female Connector | Cable | Mini Straight (Figure C)* | Mini Right Angle (Figure D)* | Micro Straight (Figure G)* | Micro Right Angle (Figure H)* | |
| Cable | ‡ 1485C-F1G50 | 1485G-F1M5-C | 1485G-F1W5-C | 1485G-F1D5-C | 1485G-F1F5-C | |
| Mini Straight (Figure A) | * 1485G-F1N5-C | 1485G-F1N5-M5 | 1485G-F1W5-N5 | 1485G-F1D5-N5 | 1485G-F1N5-F5 | |
| Mini Right Angle (Figure B) | * 1485G-F1Z5-C | 1485G-F1M5-Z5 | 1485G-F1W5-Z5 | 1485G-F1D5-Z5 | 1485G-F1F5-Z5 | |
| Micro Straight (Figure E) | * 1485G-F1R5-C | 1485G-F1M5-R5 | 1485G-F1W5-R5 | 1485G-F1R5-D5 | 1485G-F1R5-F5 | |
| Micro Right Angle (Figure F) | * 1485G-F1V5-C | 1485G-F1M5-V5 | 1485G-F1W5-V5 | 1485G-F1D5-V5 | 1485G-F1F5-V5 | |

‡ Replace 50 (50 m (164ft)) with 150 (150 m (492 ft)), 300 (300 m (984 ft)), or 600 (600 m (1968 ft)) for other standard lengths.

* Replace 1 (desired length in meters (i.e. 1485C-P1N5-M5 for a 1 m (3.28 ft) cable)) with 2 m (6.56 ft), 3 m (9.8 ft), 4 m (13 ft), 5 m (16.4 ft), or 6 m (19.7 ft) for standard cable lengths.

Note: Stainless steel versions may be ordered by adding **S** to the cat. no. (e.g., 1485RS-P1M5-C). To order a red DeviceNet cable, replace **P** with **R** in the cat. no. (e.g., 1485C-P1N5-C becomes 1485C-R1N5-C).