



Teledyne Cable Solutions

BOBTAIL
P R O D U C T S

Pressure sealed, superior quality electrical interconnections
for the transportation and RV industry



TELEDYNE
CABLE SOLUTIONS
STORM CABLE • VARISYSTEMS

www.teledynecablesolutions.com



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TELEDYNE CABLE SOLUTIONS



Teledyne Cable Solutions (TCS), an alliance formed of Teledyne Storm Cable and Teledyne VariSystems, provides bulk wire and cable and overmolded cable assemblies to the oil and gas, marine, defense, and transit industries.

With over 50 years of dedicated experience providing multiconductor cable and interconnect solutions for harsh environments, TCS meets challenges for application-specific multi-core cables and complex overmolded cable assemblies and harnesses.

Why Teledyne Cable Solutions?

We build cables & assemblies that solve cable problems.

ENGINEERED SOLUTIONS

- Proven processes to solve complex interconnect challenges
- Engineering, CAD, and technical sales support
- Product design from 3D modeling to comprehensive testing
- Comprehensive Quality & Continuous Improvement Programs

THE RIGHT TOOLS FOR THE JOB

- A wide variety of components, materials, and capabilities to develop custom solutions
- Over 50 years of dedicated experience in providing cable and interconnect solutions

QUICK TIME-TO-MARKET

- Rapid prototyping
- Fast deliveries
- Low minimum orders



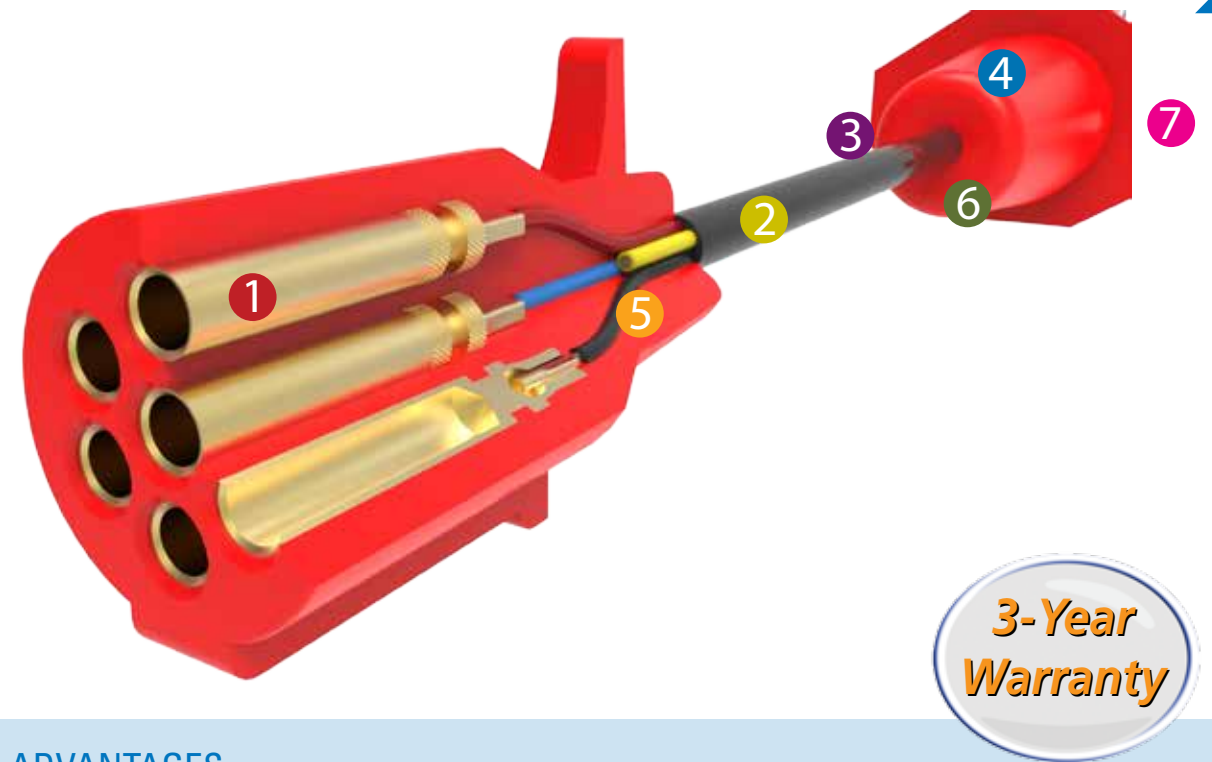
Teledyne Cable Solutions:

BOBTAIL OVERVIEW

Bobtail products are rugged, high quality interconnect systems for transportation industry operators who demand the utmost reliability from their equipment.

Manufactured from polyurethane jacketed cables and hydraulically crimped solid brass connector pins and sockets, the assembly is injection molded to form an integrated connector and cable completely impervious to water, salt, fuel, or oil.

The cable ends are pressure sealed to provide a strain relief against pull forces and prevent rain and road salts from penetrating the connector. Pressure sealed cable ends are the only guarantee against internal contact or conductor corrosion.



BOBTAIL ADVANTAGES

- ① Solid brass, machined pins and sockets provide maximum current transfer and corrosion resistance years longer than rolled sockets and hollow pins.
- ② Cords remain flexible even in extreme cold, providing ease of use and handling.
- ③ Cords exhibit 30 times greater abrasion resistance, providing reliable service, even after mishandling or improper use or storage.
- ④ Polyurethane cables and connectors are water, salt, solvent, and fuel resistant, providing more reliable service even in adverse conditions or difficult environments.
- ⑤ Injection molded plugs, sockets, and harnesses are completely impervious to water and are the only interconnection cables and receptacles to offer a 3-year warranty against internal corrosion.
- ⑥ Custom-sealed harnesses reduce service requirements and installation times.
- ⑦ Bobtail features an exclusive and innovative “breakaway” feature that holds the plug securely to the receptacle but allows the connector to disconnect without damaging either end, should the operator drive away without disconnecting.



Light Duty Cables: 4-WAY

Suitable for use in light duty and recreational interconnect systems



1. 4-WAY -
RECEPTACLE
SINGLE ENDED CABLE:



LENGTH (FT)	P/N
1	LD4-TR-01FT
5	LD4-TR-05FT
10	LD4-TR-10FT
20	LD4-TR-20FT
55	LD4-TR-55FT

2. 4-WAY -
PLUG ASSEMBLY
SINGLE ENDED CABLE:



LENGTH (FT)	P/N
1	LD4-SC1-01FT

3. 4-WAY -
PLUG ASSEMBLY
DOUBLE ENDED CABLE:



LENGTH (FT)	P/N
10	LD4-SC2-10FT
20	LD4-SC2-20FT
40	LD4-SC2-40FT

4. 4-WAY -
PLUG ASSEMBLY
COILED CABLE DOUBLE ENDED:



CABLE LENGTH / WORKING LENGTH	P/N
10 / 6	LD4-CC2-10FT
15 / 9.5	LD4-CC2-15FT
20 / 11	LD4-CC2-20FT
30 / 16	LD4-CC2-30FT

PRODUCT SPECIFICATIONS

LIGHT DUTY:

- Temperature: -60°F to 175°F (-50°C to 80°C)
- Resistant to attack by: ozone, hydrocarbons, oils, fuels, greases, seawater, and moderate chemicals
- Resistant to decontamination agents (wash) such as: soaps, steam, ammonia, bleach (STB) and Decontamination Solutions (DS-2)
- Oil Mud compatible
- UV Resistant
- Tear strength of 500lb/in per the ASTM D624

CABLE CONSTRUCTION:

- 4-14 AWG, 4 Conductor
- Stranded conductors for added flexibility and strength
- Conductors are helically cabled for improved durability
- Black Telethane Jacket
- Breakaway disconnect system between plug and receptacle
- Custom lengths and configurations available upon request

Light Duty Cables: 6-WAY

Suitable for use in light duty and recreational interconnect systems



1. 6-WAY -
RECEPTACLE
SINGLE ENDED CABLE:



LENGTH (FT)	P/N
1	LD6-TR-01FT
5	LD6-TR-05FT
10	LD6-TR-10FT
30	LD6-TR-30FT

2. 6-WAY -
PLUG ASSEMBLY
SINGLE ENDED CABLE:



LENGTH (FT)	P/N
1	LD6-SC1-01FT

3. 6-WAY -
PLUG ASSEMBLY
DOUBLE ENDED CABLE:



LENGTH (FT)	P/N
10	LD6-SC2-10FT

4. 6-WAY -
PLUG ASSEMBLY
COILED CABLE DOUBLE ENDED:



CABLE LENGTH / WORKING LENGTH	P/N
15 / 9.5	LD6-CC2-15FT
20 / 11	LD6-CC2-20FT

PRODUCT SPECIFICATIONS

LIGHT DUTY:

- Temperature: -60°F to 175°F (-50°C to 80°C)
- Resistant to attack by: ozone, hydrocarbons, oils, fuels, greases, seawater, and moderate chemicals
- Resistant to decontamination agents (wash) such as: soaps, steam, ammonia, bleach (STB) and Decontamination Solutions (DS-2)
- Oil Mud compatible
- UV Resistant
- Tear strength of 500lb/in per the ASTM D624

CABLE CONSTRUCTION:

- 1-12 AWG, 6-14 AWG, 7 Conductor (6 used)
- Stranded conductors for added flexibility and strength
- Conductors are helically cabled for improved durability
- Black Telethane Jacket
- Breakaway disconnect system between plug and receptacle
- Custom lengths and configurations available upon request

Recreational Vehicle Cables: 7-WAY

Suitable for use in regular duty recreational vehicle interconnect systems



1. 7-WAY -
RECEPTACLE
SINGLE ENDED CABLE:

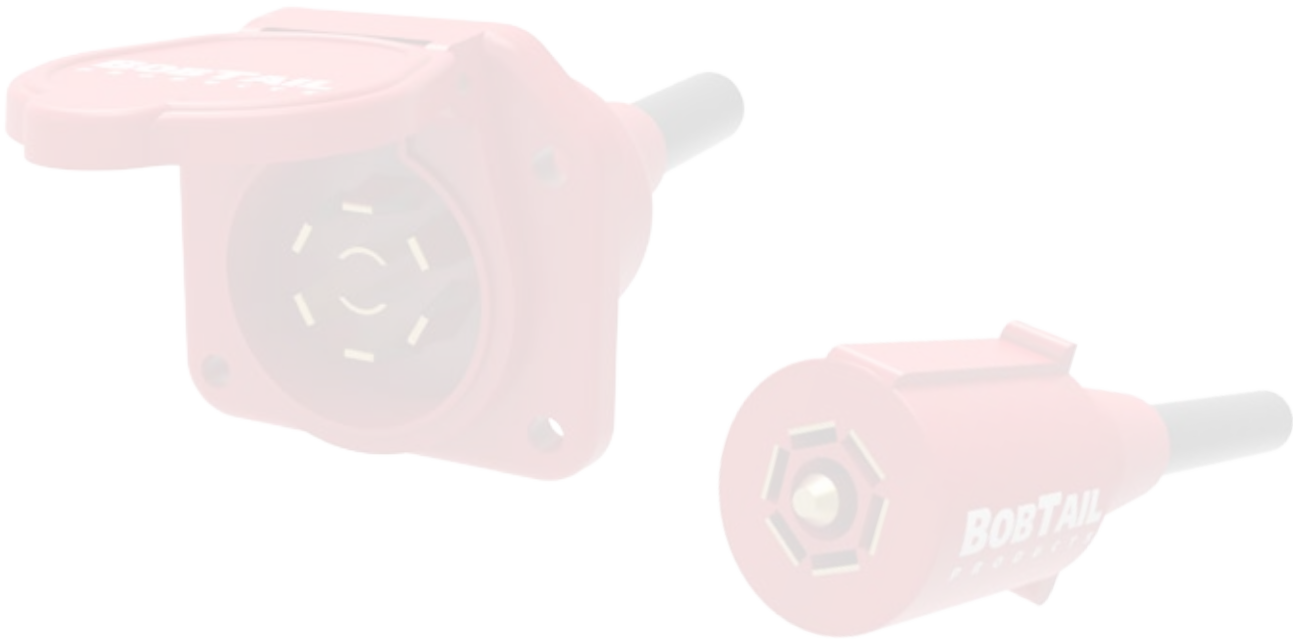


LENGTH (FT)	P/N
1	RV7-TR-01FT
5	RV7-TR-05FT
10	RV7-TR-10FT

2. 7-WAY -
PLUG ASSEMBLY
DOUBLE ENDED CABLE:



LENGTH (FT)	P/N
2	RV7-SC2-02FT
10	RV7-SC2-10FT
20	RV7-SC2-20FT



PRODUCT SPECIFICATIONS

REGULAR DUTY:

- Temperature: -60°F to 175°F (-50°C to 80°C)
- Resistant to attack by: ozone, hydrocarbons, oils, fuels, greases, seawater, and moderate chemicals
- Resistant to decontamination agents (wash) such as: soaps, steam, ammonia, bleach (STB) and Decontamination Solutions (DS-2)
- Oil Mud compatible
- UV Resistant
- Tear strength of 500lb/in per the ASTM D624

CABLE CONSTRUCTION:

- 2-10 AWG, 1-12 AWG, 4-14 AWG, 7 Conductor
- Stranded conductors for added flexibility and strength
- Conductors are helically cabled for improved durability
- Black Telethane Jacket
- Breakaway disconnect system between plug and receptacle
- Custom lengths and configurations available upon request

Regular Duty Cables: 7-WAY

Suitable for use in regular duty tractor-trailer interconnect systems



1. 7-WAY -
RECEPTACLE
SINGLE ENDED CABLE:



LENGTH (FT)	P/N
1	RD7-TR-01FT
5	RD7-TR-05FT
10	RD7-TR-10FT
15	RD7-TR-15FT
20	RD7-TR-20FT
30	RD7-TR-30FT

2. 7-WAY -
PLUG ASSEMBLY
SINGLE ENDED CABLE:



LENGTH (FT)	P/N
1	RD7-SC1-01FT

3. 7-WAY -
PLUG ASSEMBLY
DOUBLE ENDED CABLE:



LENGTH (FT)	P/N
10	RD7-SC2-10FT
20	RD7-SC2-20FT
40	RD7-SC2-40FT
60	RD7-SC2-60FT

4. 7-WAY -
PLUG ASSEMBLY
COILED CABLE DOUBLE ENDED:



CABLE LENGTH / WORKING LENGTH	P/N
10 / 6	RD7-CC2-10FT
15 / 9.5	RD7-CC2-15FT
20 / 11	RD7-CC2-20FT

PRODUCT SPECIFICATIONS

REGULAR DUTY:

- Temperature: -60°F to 175°F (-50°C to 80°C)
- Resistant to attack by: ozone, hydrocarbons, oils, fuels, greases, seawater, and moderate chemicals
- Resistant to decontamination agents (wash) such as: soaps, steam, ammonia, bleach (STB) and Decontamination Solutions (DS-2)
- Oil Mud compatible
- UV Resistant
- Tear strength of 500lb/in per the ASTM D624

CABLE CONSTRUCTION:

- 1-12 AWG, 6-14 AWG, 7 Conductor
- Stranded conductors for added flexibility and strength
- Conductors are helically cabled for improved durability
- Black Telethane Jacket
- Breakaway disconnect system between plug and receptacle
- Custom lengths and configurations available upon request

Heavy Duty Cables: 7-WAY



Suitable for use in heavy duty tractor-trailer interconnect systems

1. 7-WAY -
RECEPTACLE
SINGLE ENDED CABLE:



LENGTH (FT)	P/N
1	HD7-TR-01FT
10	HD7-TR-10FT

2. 7-WAY -
PLUG ASSEMBLY
SINGLE ENDED CABLE:



LENGTH (FT)	P/N
1	HD7-SC1-01FT

3. 7-WAY -
PLUG ASSEMBLY
DOUBLE ENDED CABLE:



LENGTH (FT)	P/N
10	HD7-SC2-10FT
20	HD7-SC2-20FT

4. 7-WAY -
PLUG ASSEMBLY
COILED CABLE DOUBLE ENDED:



CABLE LENGTH / WORKING LENGTH	P/N
10 / 6	HD7-CC2-10FT
15 / 9.5	HD7-CC2-15FT
20 / 11	HD7-CC2-20FT

PRODUCT SPECIFICATIONS

HEAVY DUTY:

- Temperature: -60°F to 175°F (-50°C to 80°C)
- Resistant to attack by: ozone, hydrocarbons, oils, fuels, greases, seawater, and moderate chemicals
- Resistant to decontamination agents (wash) such as: soaps, steam, ammonia, bleach (STB) and Decontamination Solutions (DS-2)
- Oil Mud compatible
- UV Resistant
- Tear strength of 500lb/in per the ASTM D624

CABLE CONSTRUCTION:

- 1-10 AWG, 6-12 AWG, 7 Conductor
- Stranded conductors for added flexibility and strength
- Conductors are helically cabled for improved durability
- Black Telethane Jacket
- Breakaway disconnect system between plug and receptacle
- Custom lengths and configurations available upon request

Super Duty Cables: 7-WAY



Suitable for use in super duty ABS tractor-trailer interconnect systems

1. 7-WAY -
RECEPTACLE
SINGLE ENDED CABLE:



LENGTH (FT)	P/N
1	SD7-TR-01FT
10	SD7-TR-10FT

2. 7-WAY -
PLUG ASSEMBLY
SINGLE ENDED CABLE:



LENGTH (FT)	P/N
10	SD7-SC1-10FT

3. 7-WAY -
PLUG ASSEMBLY
DOUBLE ENDED CABLE:



LENGTH (FT)	P/N
20	SD7-SC2-20FT
30	SD7-SC2-30FT

4. 7-WAY -
PLUG ASSEMBLY
COILED CABLE DOUBLE ENDED:



CABLE LENGTH / WORKING LENGTH	P/N
15 / 9.5	SD7-CC2-15FT
20 / 11	SD7-CC2-20FT

PRODUCT SPECIFICATIONS

SUPER DUTY:

- Temperature: -60°F to 175°F (-50°C to 80°C)
- Resistant to attack by: ozone, hydrocarbons, oils, fuels, greases, seawater, and moderate chemicals
- Resistant to decontamination agents (wash) such as: soaps, steam, ammonia, bleach (STB) and Decontamination Solutions (DS-2)
- Oil Mud compatible
- UV Resistant
- Tear strength of 500lb/in per the ASTM D624

CABLE CONSTRUCTION:

- 1-8 AWG, 2-10 AWG, 4-12 AWG
- Stranded conductors for added flexibility and strength
- Conductors are helically cabled for improved durability
- Green Telethane jacket
- Breakaway disconnect system between plug and receptacle
- Custom lengths and configurations available upon request

Power Cables

Suitable for use in power transfer and auxiliary charging lines



1. 12 VOLT -
RECEPTACLE
SINGLE ENDED CABLE:



LENGTH (FT)	P/N
15	PWR12-TR-01FT

2. 12 VOLT -
PLUG ASSEMBLY
DOUBLE ENDED CABLE:



LENGTH (FT)	P/N
15	PWR12-SC2-15FT

3. 12 VOLT -
PLUG ASSEMBLY
COILED CABLE DOUBLE ENDED:



CABLE LENGTH / WORKING LENGTH	P/N
10 / 6	PWR12-CC2-10FT
15 / 9.5	PWR12-CC2-15FT
20 / 11	PWR12-CC2-20FT

4. 24 VOLT -
RECEPTACLE
SINGLE ENDED CABLE:



LENGTH (FT)	P/N
1	PWR24-TR-01FT

5. 24 VOLT -
PLUG ASSEMBLY
DOUBLE ENDED CABLE:



LENGTH (FT)	P/N
15	PWR24-SC2-15FT

6. 24 VOLT -
PLUG ASSEMBLY
COILED CABLE DOUBLE ENDED:



CABLE LENGTH / WORKING LENGTH	P/N
10 / 6	PWR24-CC2-10FT
15 / 9.5	PWR24-CC2-15FT
20 / 11	PWR24-CC2-20FT

PRODUCT SPECIFICATIONS

POWER CABLES:

- Temperature: -60°F to 175°F (-50°C to 80°C)
- Resistant to attack by: ozone, hydrocarbons, oils, fuels, greases, seawater, and moderate chemicals
- Resistant to decontamination agents (wash) such as: soaps, steam, ammonia, bleach (STB) and Decontamination Solutions (DS-2)
- Oil Mud compatible
- UV Resistant
- Tear strength of 500lb/in per the ASTM D624

CABLE CONSTRUCTION:

- 2-4 AWG, 85 Amp Continuous Duty Rated
- Stranded conductors for added flexibility and strength
- Conductors are helically cabled for improved durability
- Black Telethane Jacket
- Breakaway disconnect system between plug and receptacle
- Custom lengths and configurations available upon request

Power Cables

Suitable for use in dual-voltage power transfer and auxiliary charging lines



1. 12 & 24 VOLT -
RECEPTACLE
SINGLE ENDED CABLE:



LENGTH (FT)	P/N
1	PWR36-TR-01FT

2. 12 & 24 VOLT -
PLUG ASSEMBLY
DOUBLE ENDED CABLE:



LENGTH (FT)	P/N
15	PWR36-SC2-15FT

3. 12 & 24 VOLT -
PLUG ASSEMBLY
COILED CABLE DOUBLE ENDED:



CABLE LENGTH / WORKING LENGTH	P/N
15 / 9.5	PWR36-CC2-15FT
20 / 11	PWR36-CC2-20FT

PRODUCT SPECIFICATIONS

POWER CABLES:

- Temperature: -60°F to 175°F (-50°C to 80°C)
- Resistant to attack by: ozone, hydrocarbons, oils, fuels, greases, seawater, and moderate chemicals
- Resistant to decontamination agents (wash) such as: soaps, steam, ammonia, bleach (STB) and Decontamination Solutions (DS-2)
- Oil Mud compatible
- UV Resistant
- Tear strength of 500lb/in per the ASTM D624

CABLE CONSTRUCTION:

- 3-4 AWG, 85 Amp Continuous Rated
- Stranded conductors for added flexibility and strength
- Conductors are helically cabled for improved durability
- Black Telethane jacket
- Breakaway disconnect system between plug and receptacle
- Custom lengths and configurations available upon request

Trailer Harness Pigtails

Truck, brake, taillight, and marker light cable

1. **2-WAY -
PIGTAIL ASSEMBLY,
SINGLE ENDED CABLE:**

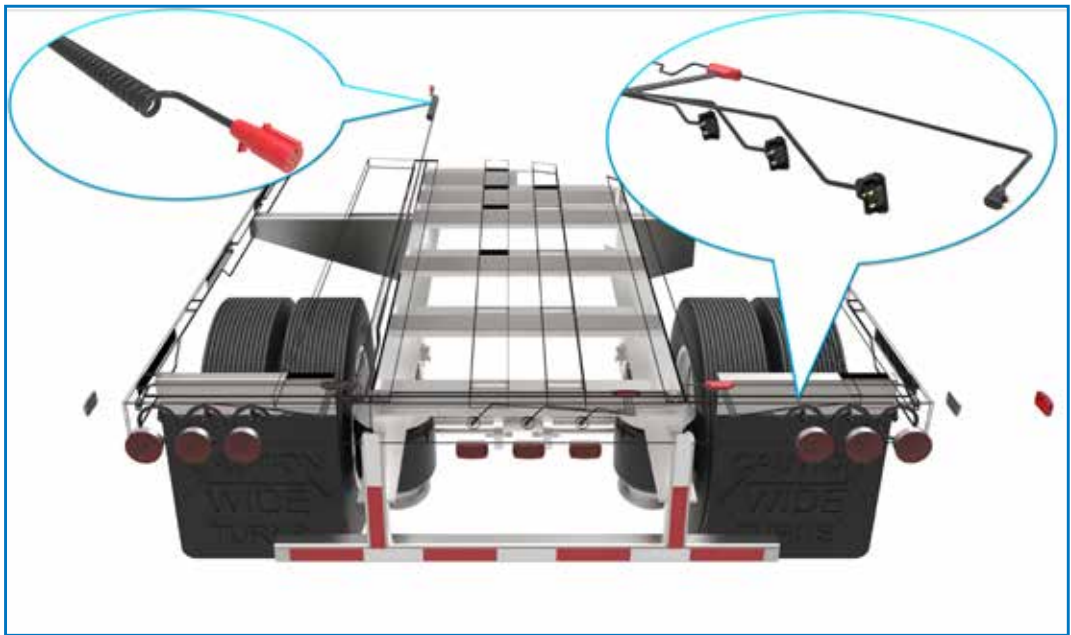


LENGTH (FT)	P/N
1	BTI 201

2. **3-WAY -
PIGTAIL ASSEMBLY,
SINGLE ENDED CABLE:**



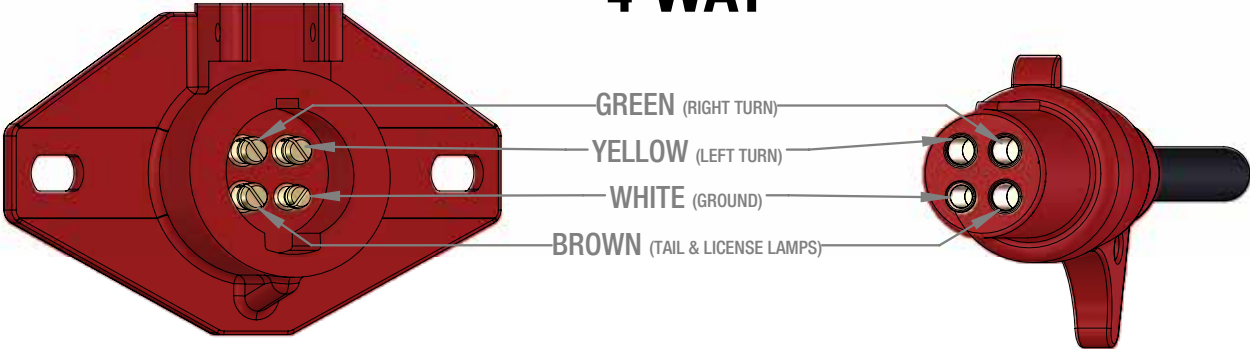
LENGTH (FT)	P/N
1	BTI 301-1
5	BTI 301-5
10	BTI 301-10
20	BTI 301-20
55	BTI 301-55



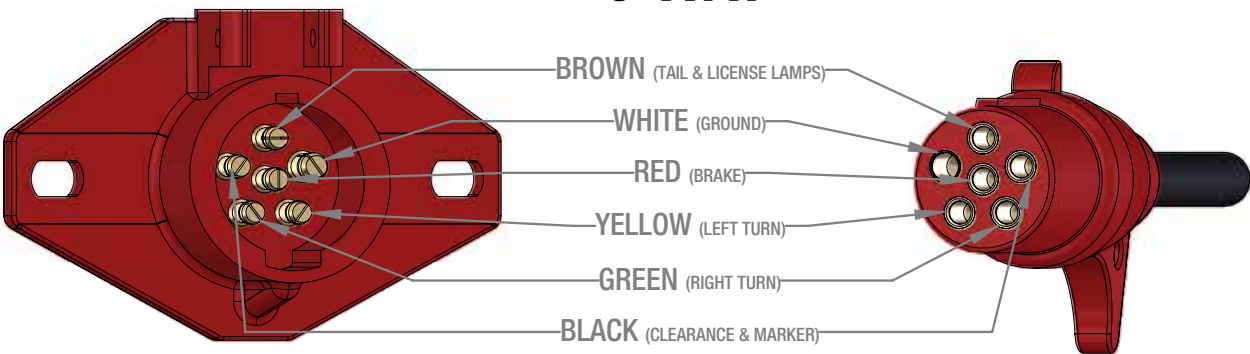
- TRAILERS:**
- Complete or partial truck decks and service bodies
 - Regular incandescent or Retrofit style L.E.D. lighting

Wiring Diagrams

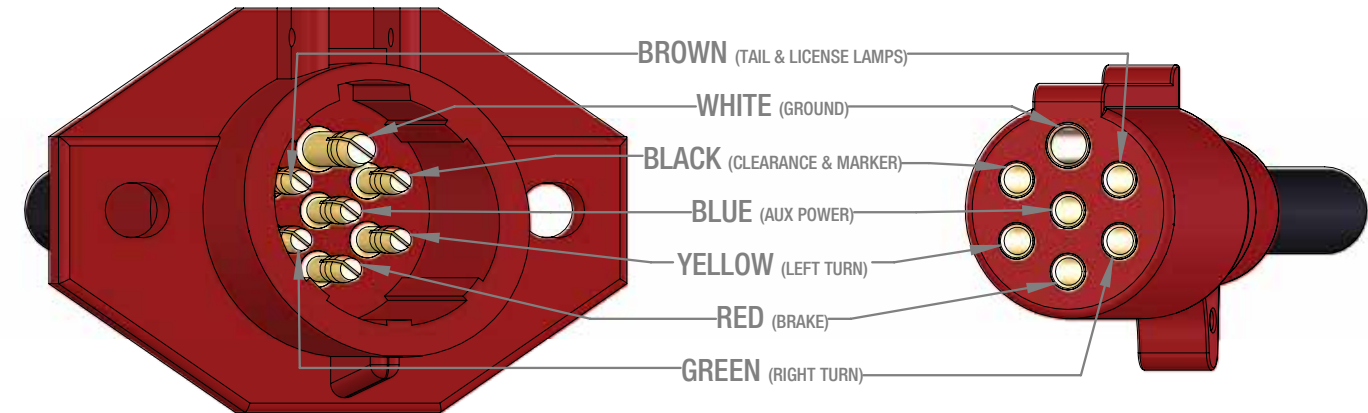
4-WAY



6-WAY

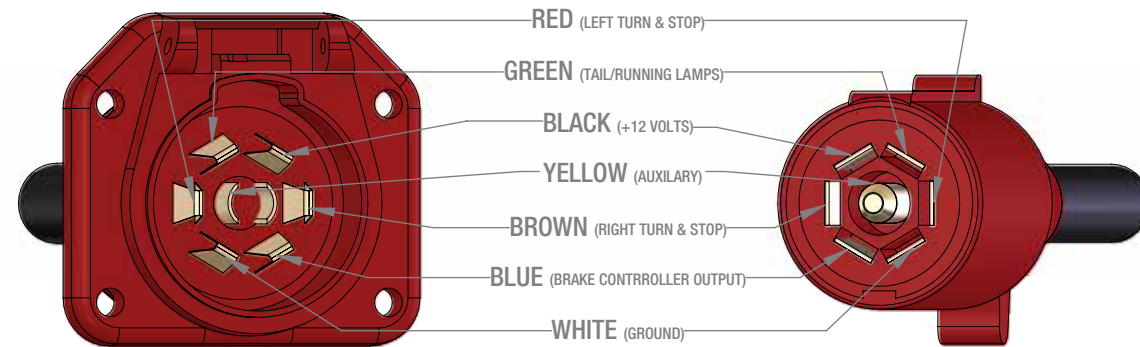


7-WAY

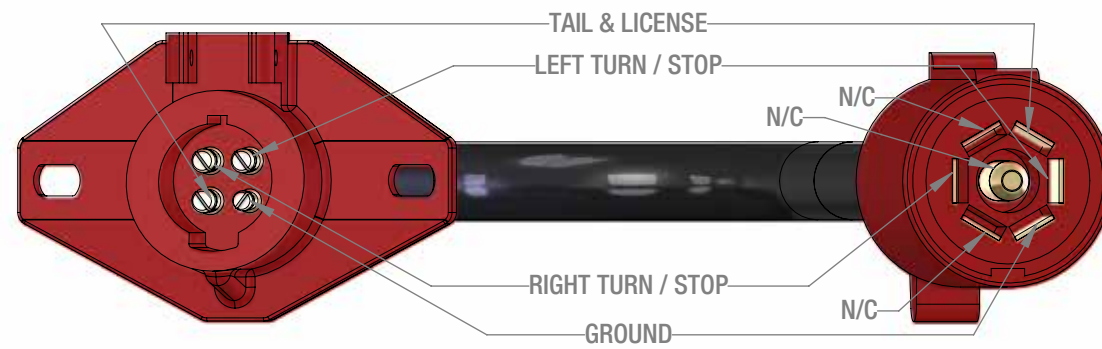


Wiring Diagrams

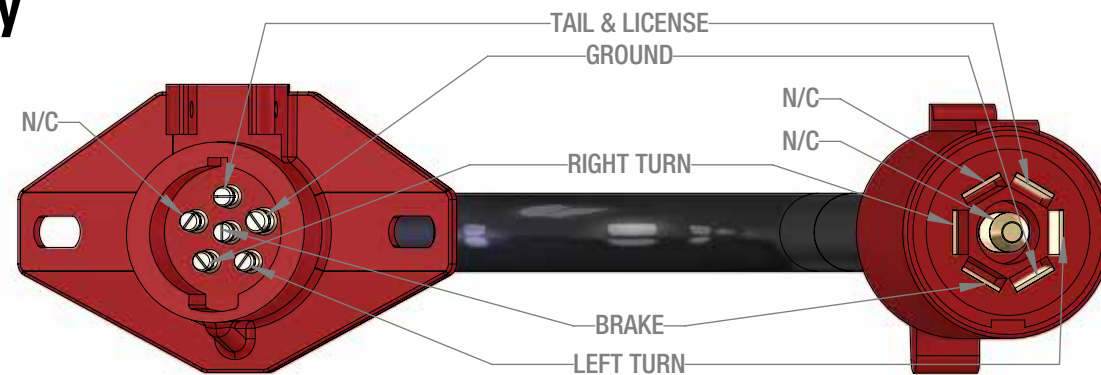
RV



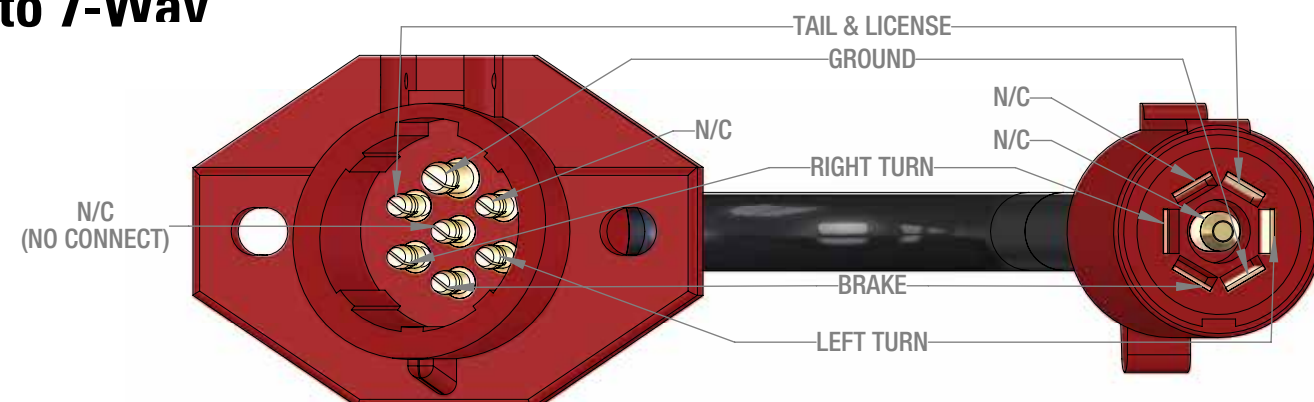
RV to 4-Way



RV to 6-Way

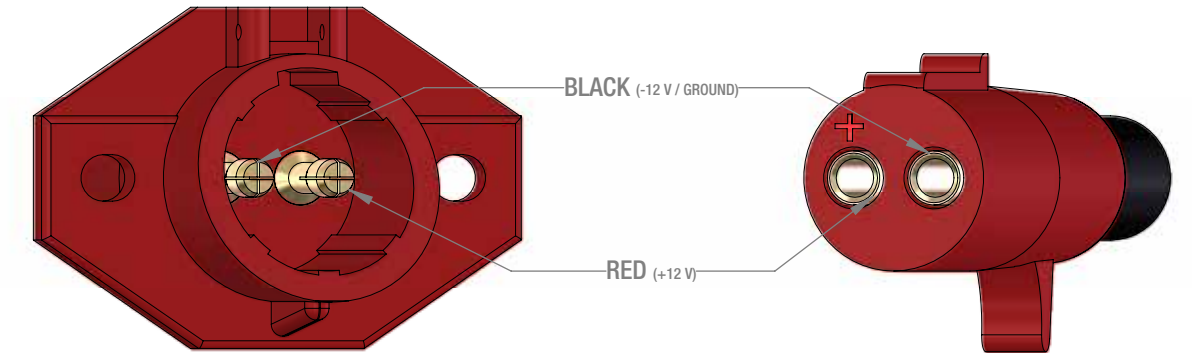


RV to 7-Way

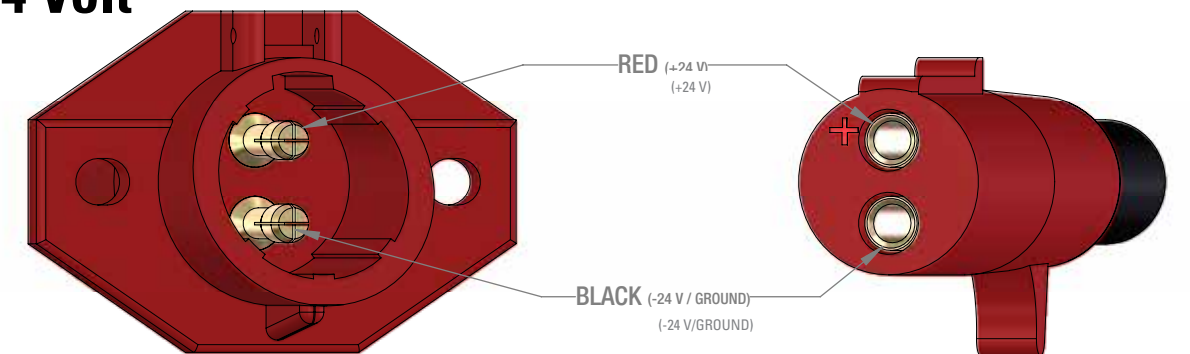


Wiring Diagrams

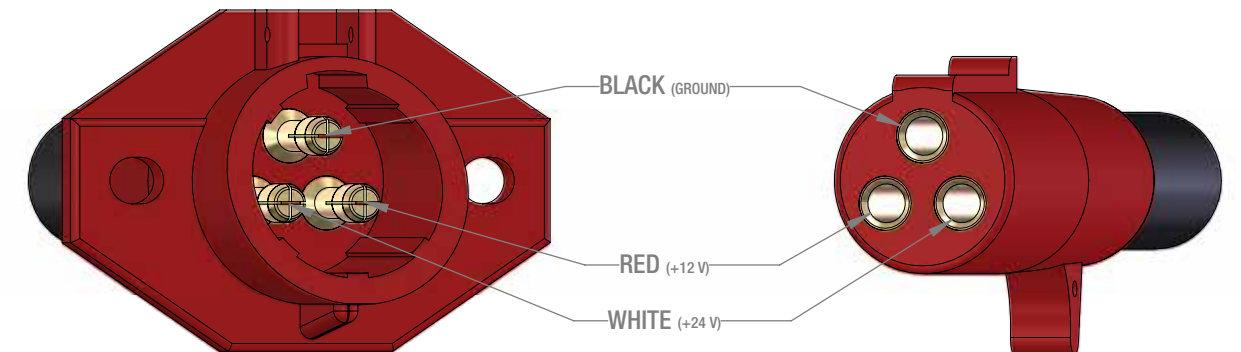
Power - 12 Volt



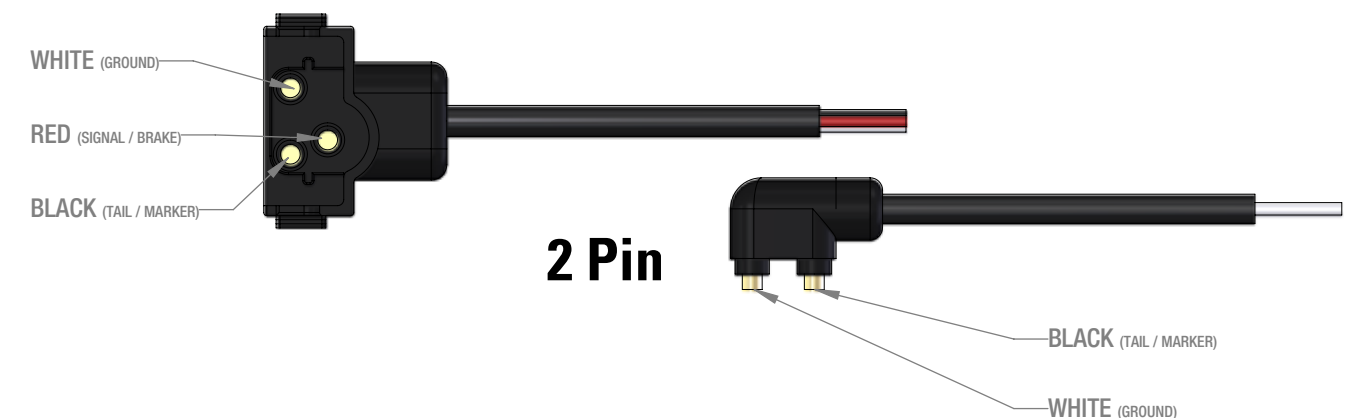
Power - 24 Volt



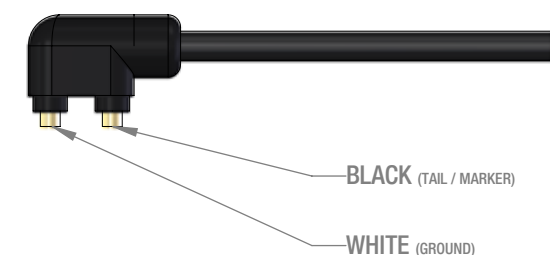
Power - 12 & 24 Volt



3 Pin



2 Pin





BULK CABLE

Teledyne Cable Solutions also offers a variety of cable in stock or custom manufactured, ranging from two conductors to 20 pairs in a variety of AWGs, all in Polyurethane jacketing for cold weather reliability and flexibility. This cable is available in any length or spool quantities.



CUSTOM CABLE

All Teledyne Cable Solutions products may be custom ordered to fit most applications. Teledyne Cable Solutions will custom manufacture our 4, 6, and 7-Way conductor products in any quantity or color required, from a single prototype to fleet requirements. TCS also overmolds custom assemblies using circular connectors.



TECHNICAL
Cable Assembly Maintenance:

For corrosion-free connections, perform these steps on a regular maintenance schedule:

- 1) Clean pins and sockets of mating ends by brushing.
- 2) Apply a good coverage of dielectric grease to each before reassembly. Dielectric grease should always be present on the connectors.

Do not probe conductor jacket with a test lamp. This small puncture will allow moisture into the copper conductor, which in turn wicks along the length to connections.

CABLE INFORMATION

All stocked cables available in bulk

4-WAY: VAR 053	
Green	14 Gauge
White	14 Gauge
Yellow	14 Gauge
Brown	14 Gauge

6-WAY: VAR 055	
White	12 Gauge
Green	14 Gauge
Red	14 Gauge
Yellow	14 Gauge
Black	14 Gauge
Brown	14 Gauge

7-WAY: VAR 055	
White	12 Gauge
Green	14 Gauge
Red	14 Gauge
Yellow	14 Gauge
Blue	14 Gauge
Black	14 Gauge
Brown	14 Gauge

7 WAY SD: VAR 056	
White	8 Gauge
Blue	10 Gauge
Red	10 Gauge
Green	12 Gauge
Yellow	12 Gauge
Black	12 Gauge
Brown	12 Gauge

POWER: VAR 260	
Red	4 Gauge
Black	4 Gauge

RV: VAR 261	
White	10 Gauge
Black	10 Gauge
Blue	12 Gauge
Brown	14 Gauge
Red	14 Gauge
Green	14 Gauge
Yellow	14 Gauge

7-WAY HD: VAR 062	
White	10 Gauge
Green	12 Gauge
Red	12 Gauge
Yellow	12 Gauge
Blue	12 Gauge
Black	12 Gauge
Brown	12 Gauge

2-WAY LIGHTING: VAR 072	
Black	16 Gauge
White	16 Gauge

2-WAY LIGHTING: VAR 073	
Black	16 Gauge
Red	16 Gauge
White	16 Gauge

AWG WIRE GAUGE REQUIRED FOR GIVEN AMPERAGE AT GIVEN LENGTH (12 VOLT SYSTEM)							
Amp approx	up to 30'	40'	50'	60'	80'	100'	120'
1	14	14	14	14	14	14	14
2	14	14	14	14	14	14	14
3	14	14	14	14	14	14	12
4	14	14	14	14	14	12	12
5	14	14	14	14	12	12	12
6	14	14	14	14	12	12	10
7	14	14	14	12	12	10	10
8	14	14	12	12	10	10	10
10	14	12	12	12	10	10	8
11	14	12	12	10	10	8	8
12	14	12	12	10	10	8	8
15	12	12	10	10	8	8	8
18	12	10	10	8	8	8	8
20	12	10	10	8	8	8	8
25	12	10	8	8	8	8	8
30	12	10	8	8	8	8	8
35	12	10	8	8	8	8	8



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TELEDYNE STORM CABLE

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TELEDYNE VARISYSTEMS

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TELEDYNE OIL & GAS

Teledyne Cable Solutions is part of Teledyne Oil & Gas, an alliance of Teledyne Technologies companies that delivers high-reliability engineered interconnect solutions for power transmission, data transmission, and monitoring applications to operators in a variety of harsh environments.

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