WE MAKE PRODUCTS THAT MAKE A DIFFERENCE™

GLOBAL ESSENTIALS

ISO & SAE







September 2012

Los Angeles, USA Shanghai, China Saltillo, Mexico

Naarden, The Netherlands Mississauga, Canada

PHILLIPS

www.phillipsind.com

WE MAKE PRODUCTS TH



Palm Couplings



Angled Palm Couplings



15P POWER LECTRACOIL™

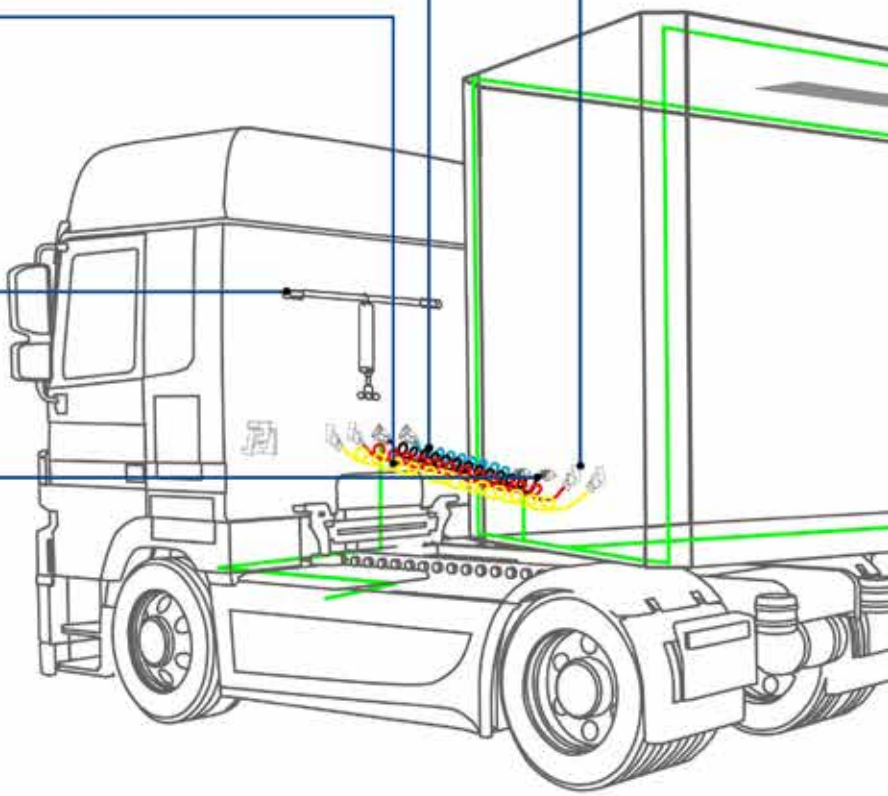
ABS



DURAFLEX-AC™
Non-Nylon, Kink-Free
Coiled Air Lines



Tracker Bar
Cable Support





15P Power Sockets



ABS / EBS Sockets



7N & 7S Sockets



COLOR BY FUNCTION™

AT MAKE A DIFFERENCE™



/ EBS DURACOIL™



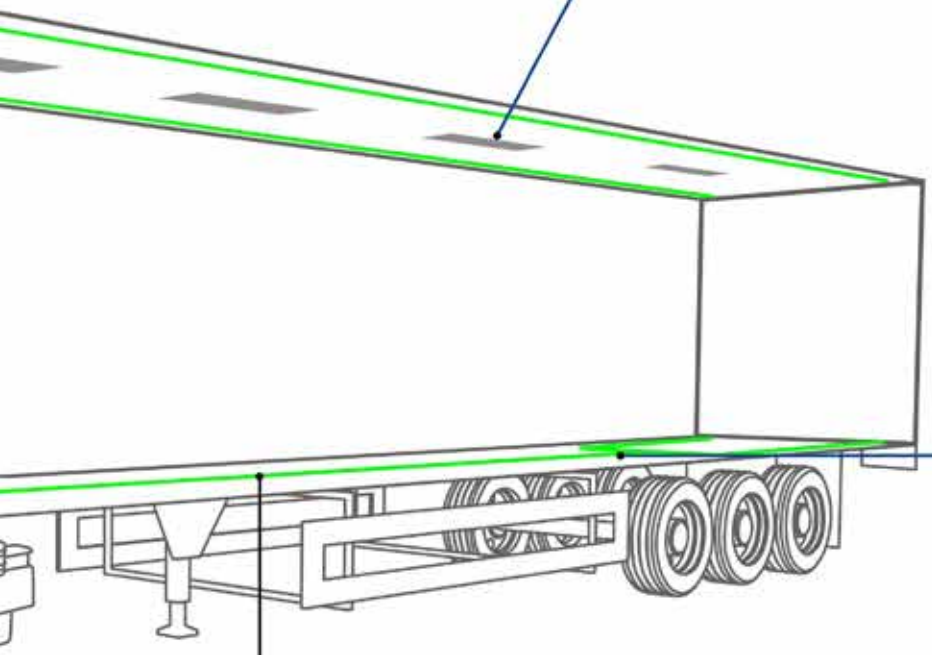
Adapter Cables



Adapter Cables



PERMALITE™
Interior Lighting





ISO QCS2™
Corrosion-Proof
Quick-Change Sockets



SLIM-7™
Sealed Wiring Harnesses



QWIK-SPLICE™
Sealed Harness Connectors



Sealed, Modular Wiring Harnesses

PHILLIPS

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Since 1928, Phillips has been driving the global transportation industry. The secret to our success is listening to customers and designing and manufacturing products that reduce downtime, cut operational expenses and solve problems. For decades, Phillips electrical and air products have been the industry standard among top OEM's and fleets. Phillips is a major International supplier and development partner to global truck and trailer OEM's as well as major fleet operators on 4 continents. Our history of success has inspired us to develop and manufacture a line of ISO 24 volt and multi-volt products to meet international standards for global compatibility. Our customers and partners rely upon us for consistent quality, reliable delivery and superior service to help save on installation, labor and replacement costs. Phillips manufactures highly engineered, solution driven products with great attention to detail, using the highest grade materials and consistently adhere to strict ISO 9001 and TS 16949 production standards at all manufacturing facilities. Extensive testing ensures that every product made reduces fleet down time and operating expenses, saving customers millions in installation and replacement costs. Our sales and customer service staff consistently rate among the top in the industry with extensive training and product knowledge, so you can depend on Phillips to lower operating costs, increase vehicle life and reduce downtime.



Phillips' leadership in quality and innovation has been recognized by numerous industry awards including Ford's Q1, Freightliner's Masters' of Quality, Paccar's Preferred Supplier, Volvo's ISO 9002 and Napa's Supplier of the Year. Phillips has certification of the coveted industry-wide ISO 9001 as well as ISO 14001, TS 16949 and BS OHSAS 18001.

Based in Santa Fe Springs, California, Phillips Industries has manufacturing and distribution facilities throughout the U.S., Canada, Mexico, China and The Netherlands.

In a world of black connectors and cables, Phillips makes it safe and easy to identify cable, plug and socket function from a distance. This helps eliminate confusion for the driver and also decreases repair and replacement time.

7N 7S ABS EBS 15P **COLOR BY FUNCTION™**





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ELECTRICAL ASSEMBLIES

LECTRACOIL™ Power Cable

Color-coded plug saves time by easily indentifying cable application

- POWER (15-Pin)
- EBS (7-Pin)
- ABS (5-Pin)

Phillips green LECTRACOIL™ jacketing is designed to perform in temperatures of -63ºC to 90ºC*

Excellent recoil memory, chemical and abrasion resistance in extreme conditions*



Stainless steel plug-lock provides a corrosion resistant, long-life connection*

360º sealed cable guard eliminates moisture and corrosion*

O-ring seal prohibits water from entering the plug when connected to the socket*

Floating brass pins automatically align to mis-aligned sockets

Unbreakable connectors made from a proprietary blend of high-strength material

* Standard on Phillips ISO 12098, 7639 and 7638 electrical cables

LECTRACOIL™ Power Cable

ISO 12098
15-Pin

15-Pin, 12x1.5mm² & 3x2.5mm²

Part No.	Length	Plug Type	Jacket Color
683-7042	3.0M	2 Nylon PERMAPLUGS™	Green
683-7052	3.5M	2 Nylon PERMAPLUGS™	Green
683-7062	4.0M	2 Nylon PERMAPLUGS™	Green
683-7072	4.5M	2 Nylon PERMAPLUGS™	Green



- Durable Hytrel jacketing – Flexible from -63ºC to +90ºC
- Excellent recoil memory, abrasion, chemical, corrosion resistance
- Jacket and plugs are color-coded green for easy function identification from a distance
- Meets ISO 12098 specifications

EBS DURACOIL™

ISO 7638-1
7-Pin

7-Pin, 5x1.5mm² & 2x4.0mm²

Part No.	Length	Plug Type	Jacket Color
662-5042	3.0M	2 Nylon PERMAPLUGS™	Dark Blue
662-5052	3.5M	2 Nylon PERMAPLUGS™	Dark Blue
662-5062	4.0M	2 Nylon PERMAPLUGS™	Dark Blue
662-5072	4.5M	2 Nylon PERMAPLUGS™	Dark Blue



- Durable Hytrel jacketing – Flexible from -63ºC to +90ºC
- Excellent recoil memory, abrasion, chemical, corrosion resistance
- Jacket and plugs are color-coded dark blue for easy function identification from a distance
- Meets ISO 7638-1 specifications for EBS systems
- ISO 7638-2 available. Contact your Phillips representative

ABS DURACOIL™

ISO 7638-1
5-Pin

5-Pin, 3x1.5mm² & 2x4.0mm²

Part No.	Length	Plug Type	Jacket Color
661-3042	3.0M	2 Nylon PERMAPLUGS™	Light Blue
661-3052	3.5M	2 Nylon PERMAPLUGS™	Light Blue
661-3062	4.0M	2 Nylon PERMAPLUGS™	Light Blue
661-3072	4.5M	2 Nylon PERMAPLUGS™	Light Blue



- Durable Hytrel jacketing – Flexible from -63ºC to +90ºC
- Excellent recoil memory, abrasion, chemical, corrosion resistance
- Jacket and plugs are color-coded light blue for easy function identification from a distance
- Meets ISO 7638-1 specifications for ABS systems
- ISO 7638-2 available. Contact your Phillips representative

PERMACOIL™ Adapter Cable - ISO 12098 to 7N

ISO 12098 to 7N
15-Pin to 7-Pin

7-Wire, 6x1.5mm² & 1x2.5mm²

Part No.	Length	Plug Type	Jacket Color
686-5252	3.5M	15-Pin Nylon PERMAPLUG™ to (1) 7-Pin Nylon (7N)	Black
686-5272	4.5M	15-Pin Nylon PERMAPLUG™ to (1) 7-Pin Nylon (7N)	Black
686-5255	3.5M	15-Pin Nylon PERMAPLUG™ to (1) 7-Pin Nylon (7N) with WEATHER-TITE™ Seal	Black
686-5275	4.5M	15-Pin Nylon PERMAPLUG™ to (1) 7-Pin Nylon (7N) with WEATHER-TITE™ Seal	Black



PERMAPLUG™ with WEATHER-TITE™ Seal

- Flexible from - 66ºC to +66ºC
- Good recoil memory, abrasion, chemical and corrosion resistance
- Jacket and plugs are color-coded black for easy function identification from a distance
- Plugs meet ISO 12098 and ISO 1185 specifications

PERMACOIL™ Adapter Cable

ISO 12098 to 7N & 7S

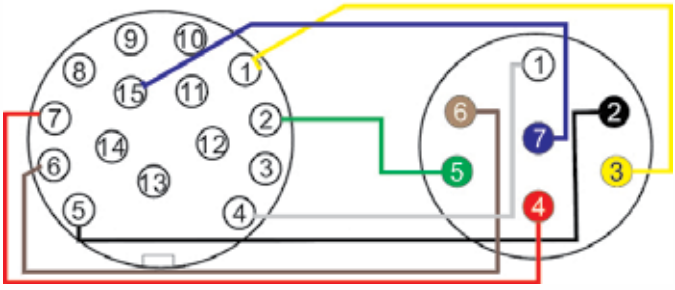
- Flexible from - 66ºC to +66ºC
- Good recoil memory, abrasion, chemical and corrosion resistance
- Jacket and plugs are color-coded black & yellow for easy function identification from a distance
- Plugs meet ISO 12098, ISO 1185 and ISO 3731 specifications



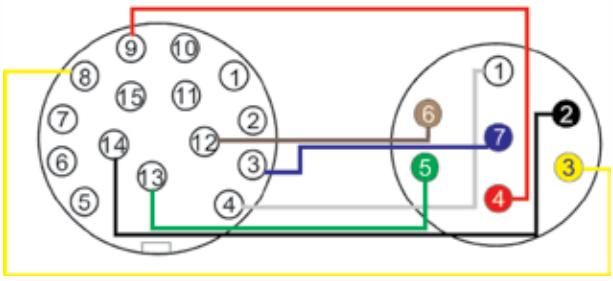
15-Pin, 2x (6x1.0mm² & 1x1.5mm²)

Part No.	Length	Plug Type	Jacket Color
686-8652	3.5M	15-Pin Nylon PERMAPLUG™ to (2) 7-Pin Nylon	Black/Yellow
686-8672	4.5M	15-Pin Nylon PERMAPLUG™ to (2) 7-Pin Nylon	Black/Yellow

15Pin to 7N



15Pin to 7S

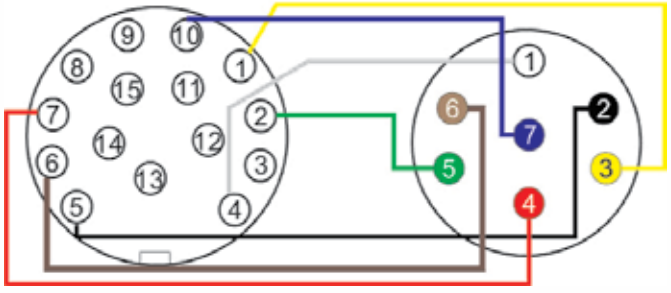




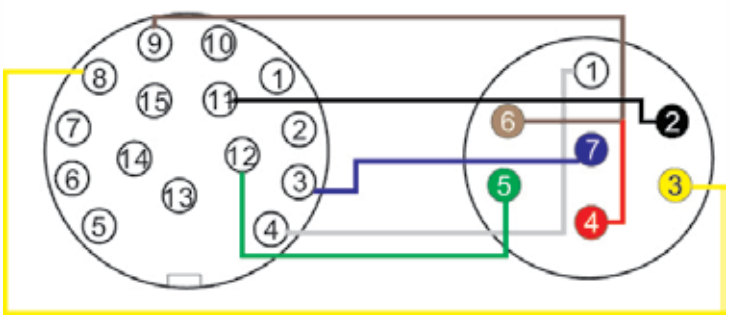
15-Pin, 2x (6x1.0mm² & 1x1.5mm²)

Part No.	Length	Plug Type	Jacket Color
686-8052	3.5M	15-Pin Nylon PERMAPLUG™ to (2) 7-Pin Nylon	Black/Yellow
686-8072	4.5M	15-Pin Nylon PERMAPLUG™ to (2) 7-Pin Nylon	Black/Yellow

15Pin to 7N



15Pin to 7S



PERMACOIL™ 7N

ISO 1185 7N





PERMAPLUG™ with WEATHER-TITE™ Seal

7-Pin, 6x1.5mm² & 1x2.5mm²

Part No.	Length	Plug Type	Jacket Color
636-5241	3.0M	Zinc Hybrid Metallic Plugs	Black
636-5251	3.5M	Zinc Hybrid Metallic Plugs	Black
636-5261	4.0M	Zinc Hybrid Metallic Plugs	Black
636-5271	4.5M	Zinc Hybrid Metallic Plugs	Black
636-5242	3.0M	Nylon PERMAPLUGS™	Black
636-5246	3.0M	Nylon PERMAPLUGS™ with WEATHER-TITE™ Seal	Black
636-5252	3.5M	Nylon PERMAPLUGS™	Black
636-5256	3.5M	Nylon PERMAPLUGS™ with WEATHER-TITE™ Seal	Black
636-5262	4.0M	Nylon PERMAPLUGS™	Black
636-5266	4.0M	Nylon PERMAPLUGS™ with WEATHER-TITE™ Seal	Black
636-5272	4.5M	Nylon PERMAPLUGS™	Black
636-5276	4.5M	Nylon PERMAPLUGS™ with WEATHER-TITE™ Seal	Black

- WEATHER-TITE™ plugs seals out water to protect against corrosion
- 360º compression ring secures plug to cable and eliminates moisture and corrosion
- Jacket is color-coded black for easy function identification from a distance
- Good recoil memory, abrasion, chemical and corrosion resistance
- Flexible from - 66ºC to +66ºC
- Plugs meet ISO 1185 specifications

PERMACOIL™ 7S

ISO 3731 7S





PERMAPLUG™

7-Pin, 6x1.5mm² & 1x2.5mm²

Part No.	Length	Plug Type	Jacket Color
647-5241	3.0M	Zinc Hybrid Metallic Plugs	Yellow
647-5251	3.5M	Zinc Hybrid Metallic Plugs	Yellow
647-5261	4.0M	Zinc Hybrid Metallic Plugs	Yellow
647-5271	4.5M	Zinc Hybrid Metallic Plugs	Yellow
647-5242	3.0M	Nylon PERMAPLUGS™	Yellow
647-5252	3.5M	Nylon PERMAPLUGS™	Yellow
647-5262	4.0M	Nylon PERMAPLUGS™	Yellow
647-5272	4.5M	Nylon PERMAPLUGS™	Yellow

- 360º compression ring secures plug to cable and eliminates moisture and corrosion
- Good recoil memory, abrasion, chemical and corrosion resistance
- Jacket and plugs are color-coded yellow for easy function identification from a distance
- Flexible from - 66ºC to +66ºC
- Plugs meet ISO 3731 specifications

PERMACOIL™

ISO 1724



7-Pin, 6x1.5mm² & 1x2.5mm²

Part No.	Length	Plug Type	Jacket Color
616-5242	3.0M	THERMOSEAL™ Corrosion-Proof Plugs	Black
616-5252	3.5M	THERMOSEAL™ Corrosion-Proof Plugs	Black
616-5262	4.0M	THERMOSEAL™ Corrosion-Proof Plugs	Black
616-5272	4.5M	THERMOSEAL™ Corrosion-Proof Plugs	Black

- Meets ISO 1724 specifications
- Molded plugs to prevent corrosion
- Good recoil memory, abrasion, chemical & corrosion resistance
- Flexible from -66ºC to 66ºC

SAE 12 VOLT ELECTRICAL ASSEMBLIES

- Large finger grips for coupling/uncoupling, even with gloves
- Longer plug interior for easy maintenance
- Protected with non-corrosive, non-conductive, dielectric grease
- PERMAPLUGS™ have machine-crimped terminals for increased conductivity
- Meets SAE J560, J2394 or ISO 3731



SAE • SAE • SAE • SAE • SAE • SAE • SAE • SAE

ABS PERMACOIL™





PERMAPLUG™



Zinc Die-Cast Plug

7-Pin, 1/8, 2/10 & 4/12 ga, ABS Applications

Part No.	Length	Plug Type	Jacket Color
30-4320	12 FT	Nylon PERMAPLUGS™	Green
30-4620	15 FT	Nylon PERMAPLUGS™	Green
30-4920	15 FT with 48" lead	Nylon PERMAPLUGS™	Green
30-4321	12 FT	Zinc Die-Cast Plugs	Green
30-4621	15 FT	Zinc Die-Cast Plugs	Green
30-4921	15 FT with 48" lead	Zinc Die-Cast Plugs	Green

- Recommended for ABS applications
- Flexible from -87ºF to 150ºF (-66ºC to 66ºC)
- Good recoil memory, chemical & abrasion resistance

PERMACOIL™



7-Pin, 1/12 & 6/14 ga, NON-ABS Applications

Part No.	Length	Plug Type	Jacket Color
24-4321	12 FT	Zinc Die-Cast Plugs	Black
24-4621	15 FT	Zinc Die-Cast Plugs	Black

- For standard 7-way applications, NON-ABS equipped trailers w/ minimal voltage demands
- Flexible from -87ºF to 150ºF (-66ºC to 66ºC)
- Good recoil memory, chemical & abrasion resistance

Straight ABS LECTRAFLEX™



7-Pin, 1/8, 2/10 & 4/12 ga, ABS Applications

Part No.	Length	Plug Type	Jacket Color
30-2051	12 FT	Zinc Die-Cast Plugs	Green
30-2071	15 FT	Zinc Die-Cast Plugs	Green
30-2091	20 FT	Zinc Die-Cast Plugs	Green

- Spring-wrapped compression contact pins
- Chemical & abrasion resistant

Single Pole Liftgate Charging Cable



1-Pin, 1/4 ga Fine Stranded Copper

Part No.	Length & Description	Plug Type	Jacket Color
23-4325	12 FT, 1 hot, 100 amp	Zinc Die-Cast Plugs	Green
23-4625	15 FT, 1 hot, 100 amp	Zinc Die-Cast Plugs	Green

- Good recoil memory, chemical & abrasion resistance
- Flexible from -87ºF to 150ºF (-66ºC to 66ºC)
- Heavy-duty, reinforced zinc die-cast housing
- Mates with single pole metal socket 15-320

ELECTRICAL CONNECTORS

STA-DRY® Power Plug

Color-coded insert to easily identify plug function
- POWER (15-Pin)
- EBS (7-Pin)
- ABS (5-Pin)

Color identifiers for easy wire installation

360º compression ring secures plug to cable

Unbreakable, non-corrosive housing can withstand the toughest conditions

Machined brass pins with crown spring and thread sealer connects wires to pins securely



Rubber cable guard also provides strain relief

Cable seal locks out moisture and corrosion

Waterproof O-ring seal protects against moisture and corrosion

Stainless steel plug lock provides a corrosion-resistant, long-life connection

STA-DRY® Power Socket



Stainless steel hinge pin and spring are designed for durability and corrosion protection

Color identifiers for easy wire installation

Proprietary material housing for durability

360° moisture barrier standard on all straight and 90° cable exit sockets

Reinforced mounting holes with stainless steel rings for durability and corrosion protection

Stainless steel collars for strength and durability

Durable, non-corrosive, water-resistant housing

Color-coded lid to easily identify socket function

Rubber gasket seals against moisture and corrosion when closed

Nickel coated machined brass pins with thread sealer securely connects wires to pins

“Floating” pins to align with irregular plugs



STA-DRY® POWER PLUGS

ISO 12098 PERMAPLUG™
ISO 12098



Part No.	Description	Type	Plug Color
716-7391	15-Pin Nylon PERMAPLUG™	Wire Insertion, 24 Volt	Green
716-7392	15-Pin Nylon PERMAPLUG™	Crimp Termination, 24 Volt	Green
716-7491	15-Pin Nylon PERMAPLUG™	Wire Insertion, 24 Volt, **ADR**	Green
716-7492	15-Pin Nylon PERMAPLUG™	Crimp Termination, 24 Volt, **ADR**	Green

- Color-coded green for easy function identification from a distance
- 360º compression ring secures plug to cable and eliminates moisture and corrosion
- Insert labeled with wire colors for quick and easy installation
- Stainless steel plug lock and hardware provide a corrosion-resistant, long-life connection
- Meets ISO 12098 specifications

EBS PERMAPLUG™
ISO 7638-1



Part No.	Description	Type	Plug Color
716-5371	7-Pin Nylon PERMAPLUG™	Wire Insertion, 24 Volt	Dark Blue
716-5372	7-Pin Nylon PERMAPLUG™	Crimp Termination, 24 Volt	Dark Blue
716-5471	7-Pin Nylon PERMAPLUG™	Wire Insertion, 24 Volt, **ADR**	Dark Blue
716-5472	7-Pin Nylon PERMAPLUG™	Crimp Termination, 24 Volt, **ADR**	Dark Blue

- Color-coded dark blue for easy function identification from a distance
- 360º compression ring secures plug to cable and eliminates moisture and corrosion
- Insert labeled with wire colors for quick and easy installation
- Stainless steel plug lock and hardware provide a corrosion-resistant, long-life connection
- Meets ISO 7638-1 specifications

ABS PERMAPLUG™
ISO 7638-1



Part No.	Description	Type	Plug Color
716-5351	5-Pin Nylon PERMAPLUG™	Wire Insertion, 24 Volt	Light Blue
716-5352	5-Pin Nylon PERMAPLUG™	Crimp Termination, 24 Volt	Light Blue
716-5451	5-Pin Nylon PERMAPLUG™	Wire Insertion, 24 Volt, **ADR**	Light Blue
716-5452	5-Pin Nylon PERMAPLUG™	Crimp Termination, 24 Volt, **ADR**	Light Blue

- Color-coded light blue for easy function identification from a distance
- 360º compression ring secures plug to cable and eliminates moisture and corrosion
- Insert labeled with wire colors for quick and easy installation
- Stainless steel plug lock and hardware provide a corrosion-resistant, long-life connection
- Meets ISO 7638-1 specifications

ISO 3731 Plug



715-4371



716-4371

Part No.	Description	Type
715-4371	Zinc Die-Cast/ Nylon PERMAPLUG™	24 Volt
716-4371	Nylon PERMAPLUG™	24 Volt
716-4671	Replacement Plug Insert (Yellow) for 715-4371 (ISO 3731)	

- 360º compression ring secures plug to cable and significantly reduces moisture and corrosion
- Floating brass pins to align with irregular socket pins
- Meets ISO 3731 specifications

ISO 1185 Plug

Part No.	Description	Type
715-3371	Zinc Die-Cast/ Nylon PERMAPLUG™	24 Volt
716-3371	Nylon PERMAPLUG™	24 Volt
716-3971	Nylon PERMAPLUG™ with WEATHER-TITE™ Seal	24 Volt
716-3671	Replacement Plug Insert For 715-3371 and 716-3371	

- 360º compression ring secures plug to cable and significantly reduces moisture and corrosion
- Floating brass pins to align with irregular socket pins
- Meets ISO 1185 specifications
- WEATHER-TITE™ plugs seal out water to protect against corrosion



715-3371



716-3971
WEATHER-TITE™

STA-DRY® POWER SOCKETS

STA-DRY® POWER Socket
ISO 12098

Part No.	Description	Type	Socket Color
716-7191	15-Pin Nylon STA-DRY® Socket	Wire Insertion, 24 Volt	Green
716-7192	15-Pin Nylon STA-DRY® Socket	Crimp Termination, 24 Volt	Green
716-7291	15-Pin Nylon STA-DRY® Socket	Wire Insertion, 24 Volt, **ADR**	Green
716-7292	15-Pin Nylon STA-DRY® Socket	Crimp Termination, 24 Volt, **ADR**	Green

- Lid color-coded green for easy function identification from a distance
- Stainless steel lid hinge pin, spring & reinforced mounting holes for durability and corrosion protection
- 360º compression ring protects against moisture and corrosion
- Rubber gasket seals against moisture and corrosion when closed
- Meets ISO 12098 specifications



STA-DRY® EBS Socket
ISO 7638-1

Part No.	Description	Type	Socket Color
716-5171	7-Pin EBS Nylon STA-DRY® Socket	Wire Insertion, 24 Volt	Dark Blue
716-5172	7-Pin EBS Nylon STA-DRY® Socket	Crimp Termination, 24 Volt	Dark Blue
716-5271	7-Pin EBS Nylon STA-DRY® Socket	Wire Insertion, 24 Volt, **ADR**	Dark Blue
716-5272	7-Pin EBS Nylon STA-DRY® Socket	Crimp Termination, 24 Volt, **ADR**	Dark Blue

- Lid color-coded dark blue for easy function identification from a distance
- Stainless steel lid hinge pin, spring & reinforced mounting holes for durability and corrosion protection
- 360º compression ring protects against moisture and corrosion
- Rubber gasket seals against moisture and corrosion when closed
- Meets ISO 7638-1 specifications



STA-DRY® ABS Socket
ISO 7638-1

Part No.	Description	Type	Socket Color
716-5151	5-Pin ABS Nylon STA-DRY® Socket	Wire Insertion, 24 Volt	Light Blue
716-5152	5-Pin ABS Nylon STA-DRY® Socket	Crimp Termination, 24 Volt	Light Blue
716-5251	5-Pin ABS Nylon STA-DRY® Socket	Wire Insertion, 24 Volt, **ADR**	Light Blue
716-5252	5-Pin ABS Nylon STA-DRY® Socket	Crimp Termination, 24 Volt, **ADR**	Light Blue

- Color-coded light blue for easy function identification from a distance
- Stainless steel lid hinge pin, spring & reinforced mounting holes for durability and corrosion protection
- 360º compression ring protects against moisture and corrosion
- Rubber gasket seals against moisture and corrosion when closed
- Meets ISO 7638-1 specifications



ISO QCS®



Part No.	Description	Socket
716-31731	24N ISO 1185 QCS® with 1M blunt cable	Nylon STA-DRY®
716-41731	24S ISO 3731 QCS® with 1M blunt cable	Nylon STA-DRY®
716-51731	EBS QCS® with 1M blunt cable	Nylon STA-DRY®
716-51531	ABS QCS® with 1M blunt cable	Nylon STA-DRY®
716-71731	15P - Power QCS®	Nylon STA-DRY®

- Completely sealed for maximum protection against water, salt, magnesium & calcium chlorides
- Significantly reduces socket replacement time, lowering maintenance costs
- Ideal for use with all Phillips STA-DRY® wiring systems
- Used by 100% of trucks manufacturers and trailers manufacturers in North America
- U.S. Patent No. 6,743,025, global patents pending

ISO STA-DRY® Parking Socket



Part No.	Description	Socket Color
716-3100	Parking Socket, For ISO 1185	Black
716-5100	Nylon STA-DRY® Parking Socket, For ISO 7638 & 12098 Plugs	Black

- Color-coded black for easy function identification from a distance
- Fits all Phillips ISO 7638 and ISO 12098 Plugs
- Stainless steel lid hinge pin, spring & reinforced mounting holes for durability and corrosion protection

STA-DRY® ISO 3731 Socket 7S



Part No.	Description	Type	Socket Color
716-4171	7-Pin Nylon STA-DRY® Socket	Wire Insertion, 24 Volt	Yellow
716-41711	7-Pin Nylon STA-DRY® Socket, w/ Socket Boot	Wire Insertion, 24 Volt	Yellow

- Sealed to prevent water from entering wire harness system
- Full-opening lid is unbreakable
- Slanted 5º for moisture drain
- Stainless steel spring and hinge pin for corrosion protection
- Meets ISO 3731 specifications

ISO 1185 Socket 7N

Part No.	Description	Type	Socket Color
715-3171	ISO 1185, 7-Pin Zinc Die-Cast Socket	Wire Insertion, 24 Volt	Grey
716-3171	ISO 1185, 7-Pin Nylon STA-DRY® Socket	Wire Insertion, 24 Volt	Black
716-3173	ISO 1185, 7-Pin Nylon STA-DRY® Socket	Bullet Termination, 24 Volt	Black
716-3571	Replacement Socket Insert for ISO 1185 Aluminum Die-Cast Socket		
715-31711	ISO 1185, 7-Pin Zinc Die-Cast Socket, w/ Socket Boot	Wire Insertion, 24 Volt	Grey
716-31711	ISO 1185, 7-Pin Nylon STA-DRY® Socket, w/ Socket Boot	Wire Insertion, 24 Volt	Black
716-31731	ISO 1185, 7-Pin Nylon STA-DRY® Socket, w/ Socket Boot	Bullet Termination, 24 Volt	Black

- STA-DRY® Socket is sealed to prevent water from entering wire harness system
- Zinc socket lid contains rubber o-ring for corrosion protection when closed
- Stainless steel spring and hinge pin for corrosion protection
- Slanted 5º for moisture drain
- Meets ISO 1185 specifications



716-3171


715-3171

ISO 1724 Socket

Part No.	Description	Type	Socket Color
716-1171	ISO 1724, 7-Pin Nylon STA-DRY® Socket	Wire Insertion, 12 Volt	Black

- For use with 12 volt systems
- Meets ISO 1724 specifications
- Nylon for durability and corrosion resistance



Socket Boot

Part No.	Description
615-740	Fits 715-3171, 716-3171, 716-3173, 716-4171

- Protects against water intrusion and contamination at the rear of the socket
- Fits all 7N and 7S sockets



SAE 12 VOLT PLUGS & SOCKETS

- Large finger grips for ease of coupling/uncoupling
- Meets SAE J560 specifications (ISO meets ISO 3731)
- Floating brass pins for secure installation in mis-aligned sockets
- Extended housing for easy repair
- Wire insertion on 7-way (non-blade), 6-way and 4-way plugs

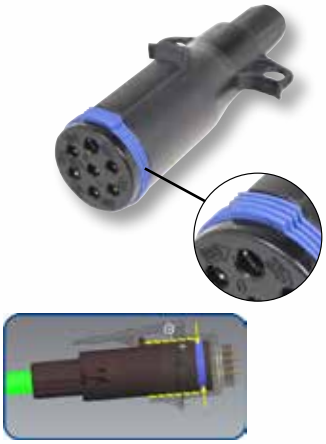


- Non-corrosive housing
- Resists magnesium chloride, salt, oil, grease and fuels
- Unbreakable housing and lid
- Stainless steel hinge pin and spring
- Elongated holes for mounting adaptability
- Meets SAE J560 specifications



SAE • 12V • SAE • 12V • SAE • 12V • SAE • 12V

STA-DRY® WEATHER-TITE™ PERMAPLUG™



Part No.	Description
16-730	7-Pin/7-Way, Nylon WEATHER-TITE™ PERMAPLUG™

- Features the new WEATHER-TITE™ for the ultimate corrosion protection!
- UNBREAKABLE, non-corrosive housing
- 360º ratcheting compression cable clamp
- Thread sealed screws prevent wire pull-out
- Shock absorbing insert bumper protects housing from impacts
- Spring-wrapped, machined brass compression pins
- 15-715 replacement insert
- Patent pending

Zinc Die-Cast Connector



Part No.	Description
15-730	7-Pin/7-Way, Heavy-duty, Reinforced Zinc Die-Cast Plug

- Thread sealed screws prevent wire pull-out
- Shock absorbing insert bumper protects housing from impacts
- Spring-wrapped, machined brass compression pins
- Heavy-duty, reinforced zinc die-cast housing
- Strong cable guard to support heavy cables
- 15-711 replacement insert
- 15-731 replacement cable guard

Single Pole Liftgate Charging Plug



Chassis Ground System

Part No.	Description
15-335	Single Pole Plug

- Universal single pole plug
- Industry-standard plug
- Lug for 4 gauge cable included
- Installs with standard lug crimp tool (crimp code gray)
- Mates with 15-320 socket

STA-DRY® Nylon Socket

Part No.	Description
16-720	2- hole, wire insertion
15-720	2-hole, wire insertion split pin
16-7403	Straight back, 48" blunt-cut cable, includes socket



- Thread sealed screws prevent wire pull-out
- For added protection against moisture, use socket boot P/N 15-740

Zinc Die-Cast Socket

Part No.	Description
15-720	2-hole, wire insertion split pin



- Heavy-duty, reinforced zinc die-cast housing
- Thread sealed screws prevent wire pull-out
- Elongated holes for mounting adaptability
- Stainless steel hinge pin and spring
- Full-opening lid
- Reduce exposure to contaminants & moisture, use socket boot P/N 15-740

STA-DRY® Socketbreaker

Part No.	Description
15-762	with 20 amp circuit breakers, split pins



- Meets SAE J560 specifications
- Stainless steel hinge pin and spring
- Full-opening lid
- Sealed to prevent moisture & contaminants from entering the harness system
- Raised interior ribs for moisture exit
- Includes neoprene closed cell sponge mounting gaskets
- Quick-change circuit breaker can be replaced in 30 seconds

Liftgate Charging Socket

Part No.	Description
15-320	Single pole socket



- Zinc die-cast housing for durability
- Solid brass pins
- Elongated holes for mounting adaptability
- Stainless steel hinge pin and spring for long life
- Mates with 15-335 single pole plug
- For use with 4 ga, 5/16” copper lug

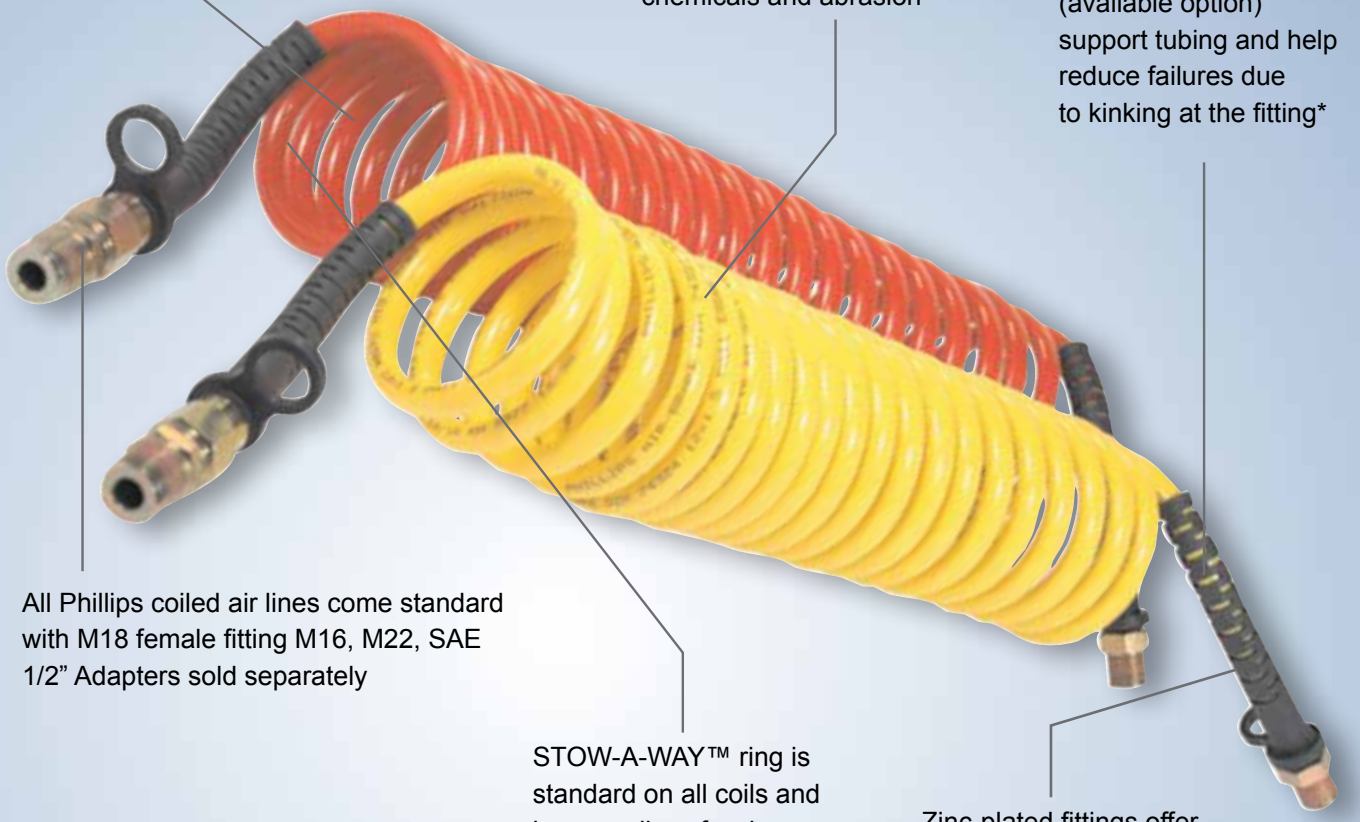
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AIR ASSEMBLIES

Large coil diameter allows for excellent recoil memory and kink resistance*

Tubing is able to withstand 57 bar (ISO) while providing outstanding resistance to chemicals and abrasion*

Color coded handles (available option) support tubing and help reduce failures due to kinking at the fitting*



All Phillips coiled air lines come standard with M18 female fitting M16, M22, SAE 1/2" Adapters sold separately

STOW-A-WAY™ ring is standard on all coils and keeps coils safe when not in use*

Zinc-plated fittings offer outstanding durability and protect against corrosion*

- **Available with metric and NPT threads**
- **DIN tubing available in black, red and yellow**
- **SAE tubing available in red and blue**



* Standard on all Phillips ISO air coils

Coiled Air Lines/ Suzie Coil

M18 X 1,5mm Female Fittings

Part No.	Length	Pair/Single	Tubing Color	Grip Color
311-4511	3.0 M	Pair	Black	Red / Yellow
311-4534	3.0 M	Single	Black	Red
311-4535	3.0 M	Single	Black	Yellow
311-5511	3.5 M	Pair	Black	Red / Yellow
311-5534	3.5 M	Single	Black	Red
311-5535	3.5 M	Single	Black	Yellow
311-6511	4.0 M	Pair	Black	Red / Yellow
311-6534	4.0 M	Single	Black	Red
311-6535	4.0 M	Single	Black	Yellow
311-7511	4.5 M	Pair	Black	Red / Yellow
311-7534	4.5 M	Single	Black	Red
311-7535	4.5 M	Single	Black	Yellow



- Nylon tubing meets DIN 73378 specifications
- Coil diameter is 90mm
- Integrated hook to hold air coils when not in use
- All fittings are 1.5mm in length

M16 X 1,5mm Male Fittings

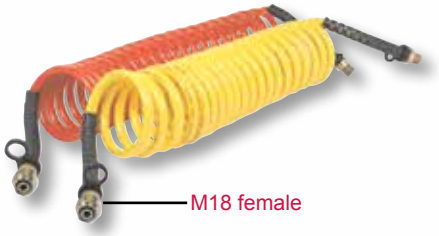
Part No.	Length	Pair/Single	Tubing Color	Grip Color
311-4111	3.0 M	Pair	Black	Red / Yellow
311-4134	3.0 M	Single	Black	Red
311-4135	3.0 M	Single	Black	Yellow
311-5111	3.5 M	Pair	Black	Red / Yellow
311-5134	3.5 M	Single	Black	Red
311-5135	3.5 M	Single	Black	Yellow
311-6111	4.0 M	Pair	Black	Red / Yellow
311-6134	4.0 M	Single	Black	Red
311-6135	4.0 M	Single	Black	Yellow
311-7111	4.5 M	Pair	Black	Red / Yellow
311-7134	4.5 M	Single	Black	Red
311-7135	4.5 M	Single	Black	Yellow



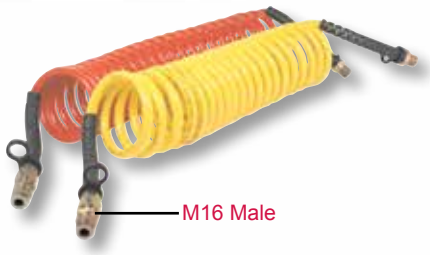
- Nylon tubing meets DIN 73378 specifications
- Coil diameter is 90mm
- Integrated hook to hold air coils when not in use
- Male ends include thread sealer for secure connection to palm couplings
- All fittings are 1.5mm in length

M18 X 1,5mm Female Fittings

Part No.	Length	Pair/Single	Tubing Color	Grip Color
311-4522	3.0 M	Pair	Red / Yellow	Black
311-4546	3.0 M	Single	Red	Black
311-4556	3.0 M	Single	Yellow	Black
311-5522	3.5 M	Pair	Red / Yellow	Black
311-5546	3.5 M	Single	Red	Black
311-5556	3.5 M	Single	Yellow	Black
311-6522	4.0 M	Pair	Red / Yellow	Black
311-6546	4.0 M	Single	Red	Black
311-6556	4.0 M	Single	Yellow	Black
311-7522	4.5 M	Pair	Red / Yellow	Black
311-7546	4.5 M	Single	Red	Black
311-7556	4.5 M	Single	Yellow	Black



- Nylon tubing meets DIN 73378 specifications
- Coil diameter is 90mm
- Integrated hook to hold air coils when not in use
- All fittings are 1.5mm in length



- Nylon tubing meets DIN 73378 specifications
- Coil diameter is 90mm
- Integrated hook to hold air coils when not in use
- Male ends include thread sealer for secure connection to palm couplings
- All fittings are 1.5mm in length

M16 X 1,5mm Male Fittings

Part No.	Length	Pair/Single	Tubing Color	Grip Color
311-4122	3.0 M	Pair	Red / Yellow	Black
311-4146	3.0 M	Single	Red	Black
311-4156	3.0 M	Single	Yellow	Black
311-5122	3.5 M	Pair	Red / Yellow	Black
311-5146	3.5 M	Single	Red	Black
311-5156	3.5 M	Single	Yellow	Black
311-6122	4.0 M	Pair	Red / Yellow	Black
311-6146	4.0 M	Single	Red	Black
311-6156	4.0 M	Single	Yellow	Black
311-7122	4.5 M	Pair	Red / Yellow	Black
311-7146	4.5 M	Single	Red	Black
311-7156	4.5 M	Single	Yellow	Black

SAE COILED AIR

- Extremely Flexible - will not kink!
- Excellent recoil memory
- Resistant to chemical and physical abrasion
- Flexible to -40ºF to +160ºF
- Meets DOT 49 CFR 393.45 specifications
- Meets FMVSS 571.106 specifications

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POLAR AIR®



Part No.	Length	Pair/Single	Tubing Color
313-1973	12 FT	Pair	Red / Blue
313-2973	15 FT	Pair	Red / Blue
313-5973	15FT with 40" lead	Pair	Red / Blue

- REMAINS FLEXIBLE AT (-65ºC) -85ºF!
- FOR EXTREME WEATHER CONDITIONS
- Excellent recoil memory, chemical & abrasion resistance
- POWER GRIP™ gladhand extension provides superior coupling/uncoupling leverage
- Large coil diameter prevents kinking and provides greater recoil
- Jacketing prevents fractures and provides durable, rubber feel
- Meets SAE J844 and J1131 specifications
- Meets FMVSS 571.106 specifications
- Meets DOT 49 CFR 393.45 specifications

Heavy-Duty Coiled Air



KINK-FREE!



Made With DURAFLEX-AC™

Part No.	Description	Pair/Single	Tubing Color
310-1973	12 FT	Pair	Red / Blue
310-1943	12 FT	Single	Red
310-1963	12 FT	Single	Blue
310-2973	15 FT	Pair	Red / Blue
310-2943	15 FT	Single	Red
310-2963	15 FT	Single	Blue
310-5973	15 FT with 40" lead	Pair	Red / Blue
310-5943	15 FT with 40" lead	Single	Red
310-5963	15 FT with 40" lead	Single	Blue

- Made with Phillips DURAFLEX-AC™ kink-free and nylon-free proprietary blend
- Includes thread seal for secure connection to gladhand
- Single piece trailer side & three-piece tractor side fittings
- Plated steel spring for added cable protection
- Meets FMVSS 571.106 specifications
- Meets DOT 49 CFR 393.45 specifications
- Performs to SAE J844 & J1131 standards

AIR CONNECTORS

Palm Couplings

380 aluminum for outstanding strength. Most competitors use high silica content to reduce costs. The result is a brittle palm coupling which can snap and fail with little effort

Gold chromate-plated steel detent plate for thousands of coupling/uncouplings. Many competitors don't use a plate at this critical wear point which causes the palm coupling to fail quickly

E-Coated, high-strength, one-way screws. Many competitors use standard Phillips or hex head screws that back out easily, causing the palm coupling to fail





"Locking" dimple on connector plate secures palm coupling connections

High Density Polyethylene covers for outstanding strength and durability

Powder-coated connector plate (not painted) to maintain integrity and performance and provide maximum corrosion protection

Stainless steel rivets hold the detent plate secure for years of coupling/uncoupling. This critical wear point is designed to withstand years of coupling/uncoupling pressure

- **Also available with full-body anodizing for corrosion resistance**
- **100% tested for air leak and torque specifications**
- **Standard Equipment on most OEMs in North America and beyond**
- **Available with and without covers**
- **Available in straight and angled (for trailers)**

Straight Palm Coupling



- Powder-coated connector plate for durability and corrosion protection
- Zinc-coated steel detent plates and rivets for strength
- E-coated screws for corrosion protection
- ABS cover for extreme durability
- All palm couplings accept 1.5mm thread pitch male fittings
- Meets ISO 1728 specifications

M16 X 1.5mm Thread

Part No.	Description
400-1011	Yellow (Service), No Cover
400-1012	Red (Emergency), No Cover
400-1013	Black (Universal), No Cover
401-1011	Yellow (Service), with Yellow Cover
401-1012	Red (Emergency), with Red Cover
401-1013	Black (Universal), with Black Cover

M22 X 1.5mm Thread

Part No.	Description
400-2011	Yellow (Service), No Cover
400-2012	Red (Emergency), No Cover
400-2013	Black (Universal), No Cover
401-2011	Yellow (Service), with Yellow Cover
401-2012	Red (Emergency), with Red Cover
401-2013	Black (Universal), with Black Cover

Angled Palm Coupling



- For use on trailers
- Extends the life of coiled air lines
- Powder-coated connector plate for durability and corrosion protection
- Zinc-coated steel detent plates and rivets for strength
- E-coated screws for corrosion protection
- Polycarbonate covers for extreme durability
- Meets ISO 1728 specifications

M16 X 1.5mm Thread

Part No.	Description
410-1011	Yellow (Service), No Cover
410-1012	Red (Emergency), No Cover
411-1011	Yellow (Service), with Yellow Cover
411-1012	Red (Emergency), with Red Cover

M22 x 1.5mm Thread

Part No.	Description
410-2011	Yellow (Service), No Cover
410-2012	Red (Emergency), No Cover
411-2011	Yellow (Service), with Yellow Cover
411-2012	Red (Emergency), with Red Cover

M16 x 1.5mm Thread with Filter Screen

Part No.	Description
410-1111	Yellow (Service), No Cover
410-1112	Red (Emergency), No Cover

M22 x 1.5mm Thread with Filter Screen

Part No.	Description
410-2111	Yellow (Service), No Cover
410-2112	Angled (Emergency) Palm Coupling (Red) -M22 x 1.5mm Thread, w/ Filter Screen, w/o Cover

Auto Shut-off Palm Coupling

M16x 1.5mm Thread

Part No.	Description
401-1211	Yellow (Service), with Yellow Cover
401-1212	Red (Emergency), with Red Cover
401-1213	Black (Universal), with Black Cover

M22x 1.5mm Thread

Part No.	Description
401-2211	Yellow (Service), with Yellow Cover
401-2212	Red (Emergency), with Red Cover
401-2213	Black (Universal), with Black Cover



- Aluminum body
- Color-coded caps for easy identification

Palm Coupling Seals

Part No.	Description
12-011	Black, Narrow-Lip (ISO-Style), Rubber

* Fits ISO 1728 palm couplings with and without covers



Coiled Air / Suzie Coil Adapter

Part No.	Description
430-1111	Coiled Air Adapter, To M16 x 1.5 Male
430-1211	Coiled Air Adapter, To M22 x 1.5 Male
430-1311	Coiled Air Adapter, To R 1/2"
430-1411	Coiled Air Adapter, To 1/2" NPTF
430-1511	Coiled Air Adapter, To M18 x 1.5 Female 34mm
430-1611	Coiled Air Adapter, To 1/2" SAE Male



- All adapters include thread sealer as standard

Palm Coupling Extension Grips

Part No.	Description
12-606	Pair, Red/Yellow, ISO M16
12-612	Pair, Red/Yellow, ISO M22



- Provides strong leverage for hooking/unhooking palm couplings
- 1-piece hexagonal aluminum for strength and durability
- Anodized for corrosion protection
- Easy installation – installs between air coil and palm coupling
- For use with M16 & M22 coiled air fittings and palm couplings

Straight Palm Coupling



1/2" NPT X 1.5mm Thread	
Part No.	**Description**
400-7011	Yellow (Service), No Cover
400-7012	Red (Emergency), No Cover
400-7013	Black (Universal), No Cover
401-7011	Yellow (Service), with Yellow Cover
401-7012	Red (Emergency), with Red Cover
401-7013	Black (Universal), with Black Cover

Angled Palm Coupling



1/2" NPT x 1.5mm	
Part No.	**Description**
410-7011	Yellow (Service), No Cover
410-7012	Red (Emergency), No Cover
411-7011	Yellow (Service), with Yellow Cover
411-7012	Red (Emergency), with Red Cover

Palm Coupling Seals



12-012



12-0161



12-0162



12-0163

Dust flap keeps debris out of air system*



12-0167

Part No.	Description
12-011	Black, Narrow-Lip (ISO-Style), Rubber
12-012	Black, Wide-Lip (SAE-Style), Tapered Base, Rubber
12-0161	Blue (Service), Polyurethane
12-0162	Red (Emergency), Polyurethane
12-0163	Black (Universal), Polyurethane
12-0167	Gray (Universal), with Dust Flap, Polyurethane

* Filter screen recommended

Coiled Air Gladhand Extension Grips



Part No.	Description
12-600	Pair (red and blue), clamshell

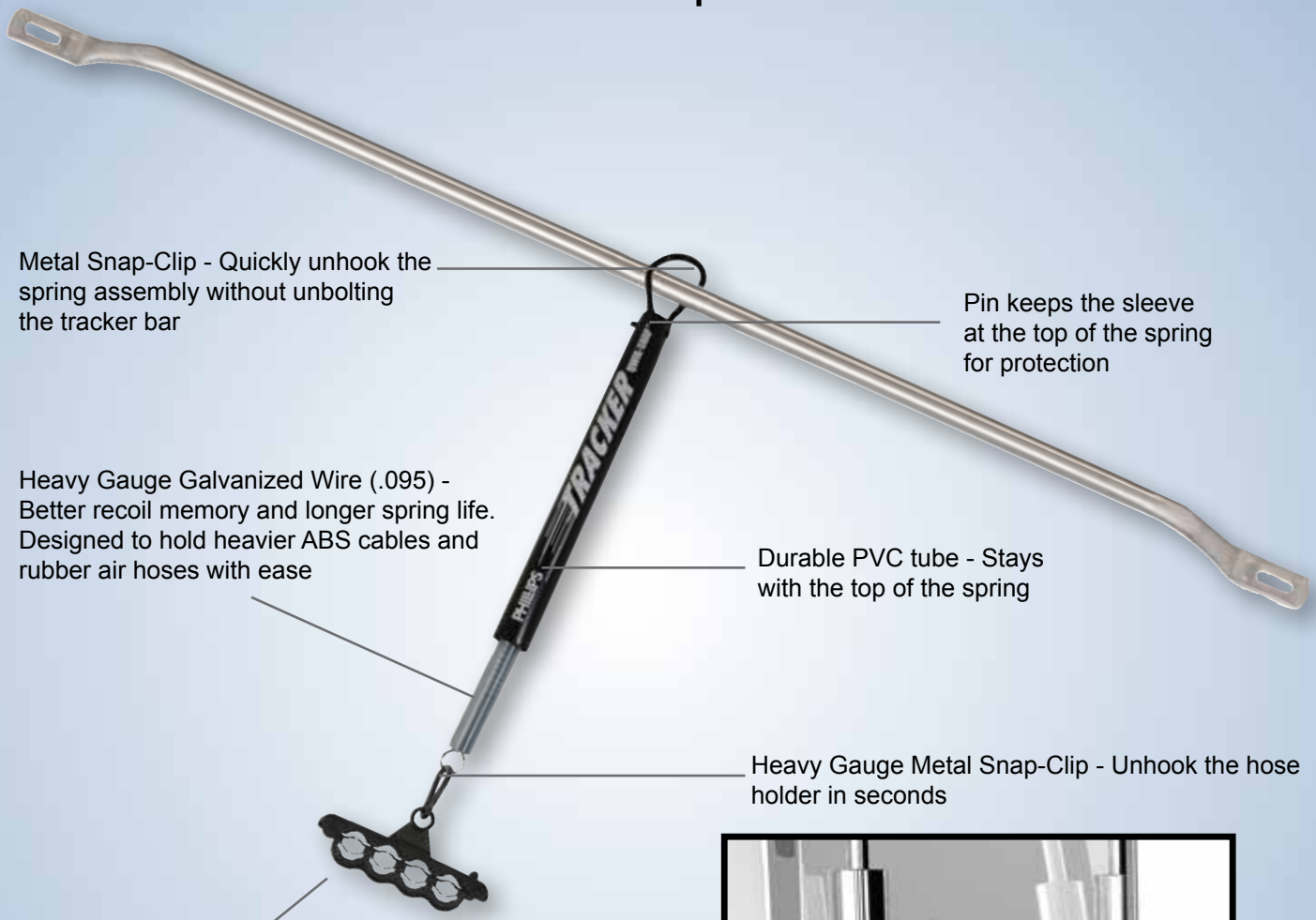
- Provides strong leverage for coupling/uncoupling gladhands
- Durable and strong; made of solid machined aluminum
- One-piece body for easy installation
- Bright, corrosion-resistant anodized color coating
- Easy installation - Installs between air coil and gladhand
- Heavy diamond knurl for outstanding grip



CABLE SUPPORT AND ACCESSORIES

Tracker Bar Spring Kit

Extends cable and air line life by protecting them from the cat walk/deck plate



Metal Snap-Clip - Quickly unhook the spring assembly without unbolting the tracker bar

Pin keeps the sleeve at the top of the spring for protection

Heavy Gauge Galvanized Wire (.095) - Better recoil memory and longer spring life. Designed to hold heavier ABS cables and rubber air hoses with ease

Durable PVC tube - Stays with the top of the spring

Heavy Gauge Metal Snap-Clip - Unhook the hose holder in seconds

QWIK-SNAP™ patented “scissor” design - Allows cable/hose replacement in seconds!



STOW-A-WAY™



Part No.	Description
15-042	2 Plug, 2 Gladhand/Palm Coupling Holder

- 32% of truckers Workmen's Comp claims are from accidents occurring behind the cab, according to leading insurance carriers
- STOW-A-WAY™ offers safe, easy storage for coiled electrical cables, liftgate cables and air lines when not in use
- Corrosion resistant and extremely durable
- Air & electrical can be coupled/uncoupled with both feet on the ground
- Angled for easy access

Pogo Stick



Part No.	Description
17-0400	1 Meter, Chrome

- Designed for heavier ABS cables
- Extra heavy-duty internal spring
- Can accept STOW-A-WAY™ (15-041, 15-042), with 17-039 mounting kit
- Includes QWIK-SNAP™ 3-hose holder
- 8" coated spring for corrosion resistance
- Heavy-duty 7/16" mounting bolt

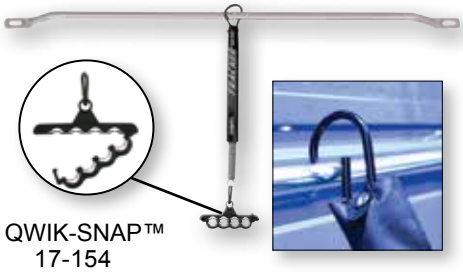
Tracker Bar Spring Kit



Part No.	Description
17-148	.5 Meter Heavy-duty spring kit with QWIK-SNAP™ 3-hose holder
17-1684	.5 Meter Heavy-duty spring kit with QWIK-SNAP™ 4-hose holder

- Replacement spring and hardware for tracker bars
- Kits include snap-on clip, sleeve, 3-hose holder and spring(s)
- Ideal for ABS cable use

Tracker Bar



Part No.	Description
17-149	1 Meter bar & .5 Meter spring kit with QWIK-SNAP™ 3-hose holder
17-1494	1 Meter bar & .5 Meter spring kit with QWIK-SNAP™ 4-hose holder

- Back of cab cable support
- Kits include bar, snap-on clip, sleeve, 3-hose holder and spring
- Stainless steel bar

QWIK-SNAP™ Hose holders



Part No.	Description
17-152	2 -hose holder
17-153	3 -hose holder
17-154	4 -hose holder

- Easy to use with gloves - no loose parts
- Positive Lock - stays connected at over 80 lbs. of pull force
- Durable nylon for extreme weather, corrosion and impact resistance
- Quicker than conventional hose holders - change hoses in seconds!
- Versatile design adjusts to accommodate 3/8" and 1/2" hoses
- Tested over 30,000 cycles at -20ºF (-29ºC) & 30,000 cycles at 190ºF (88ºC) with no sign of failure
- Patent pending

ADDITIONAL PRODUCTS BY PHILLIPS

Bulk ISO Cable

Part No.	Description	Length	Jacket Color
606-5322	7N Bulk Cable, 6 x 1.5mm2 & 1 x 2.5mm2	100M	Black
606-5325	7N Bulk Cable, 6 x 1.5mm2 & 1 x 2.5mm2	500M	Black
603-7122	15 Pin Bulk Cable, 12 x 1.5mm2 & 3 x 2.5mm2	100M	Green
603-7125	15 Pin Bulk Cable, 12 x 1.5mm2 & 3 x 2.5mm2	500M	Green
602-5122	7 Pin Bulk Cable, 5 x 1.5mm2 & 2 x 4.0mm2	100M	Dark Blue
602-5125	7 Pin Bulk Cable, 5 x 1.5mm2 & 2 x 4.0mm2	500M	Dark Blue



CLEAR-VU™ Butt Connectors

Part No.	Description
1-1661	CRIMP & SEAL™ CLEAR-VU™ Window Butt Connector, 22-18 awg, red stripes
1-1661-100	CRIMP & SEAL™ CLEAR-VU™ Window Butt Connector, 22-18 awg, red stripes
1-1662	CRIMP & SEAL™ CLEAR-VU™ Window Butt Connector, 16-14 awg, blue stripes
1-1662-100	CRIMP & SEAL™ CLEAR-VU™ Window Butt Connector, 16-14 awg, blue stripes
1-1663	CRIMP & SEAL™ CLEAR-VU™ Window Butt Connector, 12-10 awg, yellow stripes
1-1663-100	CRIMP & SEAL™ CLEAR-VU™ Window Butt Connector, 12-10 awg, yellow stripes



- Window in center of connectors assures that wire is seated properly and that the wire is being crimped to the connector
- Color-coded stripes identify wire gauge size to be used with connector
- Color-coded stripes also indicate/guide the installer to the proper crimp position in the center of the barrel
- Seamless barrel butt connectors ensure superior crimp performance
- Wire-stop in butt connectors prevents over-insertion of wire
- ROHS compliant

PERMALITE™ XB LED

Part No.	Description	Qty.
60-2212	Replacement lens	1
60-2215	PERMALITE™ XB LED, Individual Retail Box	1
60-2216	PERMALITE™ XB LED, Bulk Pack	6



- More light output than competitive lamps!
- Draws only 1.8 amps at 12V DC, .92 amps at 24V DC
- Universal mounting holes
- 1” thin (.73” recessed) design can fit just about any application
- UNBREAKABLE polycarbonate lens and housing
- Designed for extreme temperatures: -40ºF (-40ºC) to +140ºF (60ºC)
- 175º light spread offers more lit area inside the trailer
- 3 year limited warranty - See website for details

Junction Box

Part No.	Description
15-961	CLEAR-VU™ Wiring Harness Junction Box

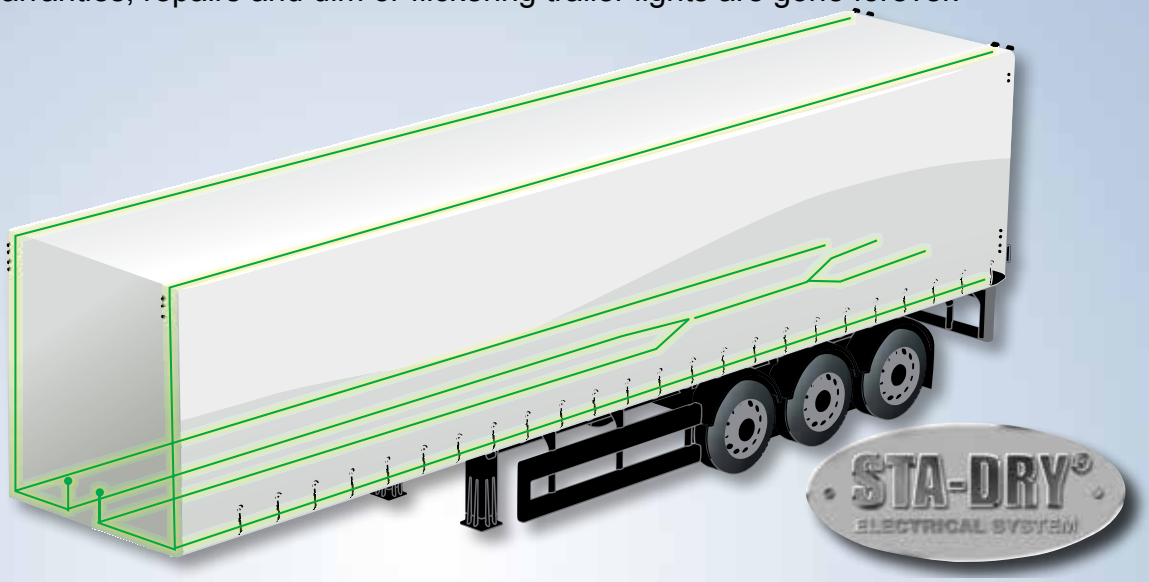


- Larger junction box accepts ABS cable and additional wiring
- Ring termination
- Pass-through grommets accommodate up to 20mm cable
- Seven #10 stud posts
- Hole pattern is 187mm center to center

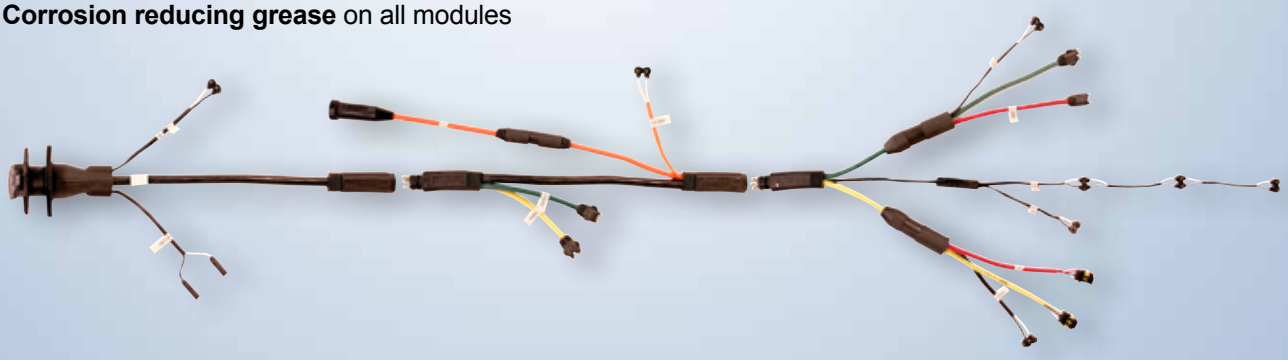
STA-DRY® ELECTRICAL HARNESS SYSTEM

STA-DRY® SLIM-7™ MODULAR SYSTEM

Protect against moisture, corrosion and failure by choosing an electrical harness system built to withstand the most extreme environmental conditions. Phillips STA-DRY® Harness Systems are demanded by most of the top fleets and OEMs in North America, South America, Australia and other markets around the world. Because STA-DRY® Harnesses are easy to install and maintain, warranties, repairs and dim or flickering trailer lights are gone forever.

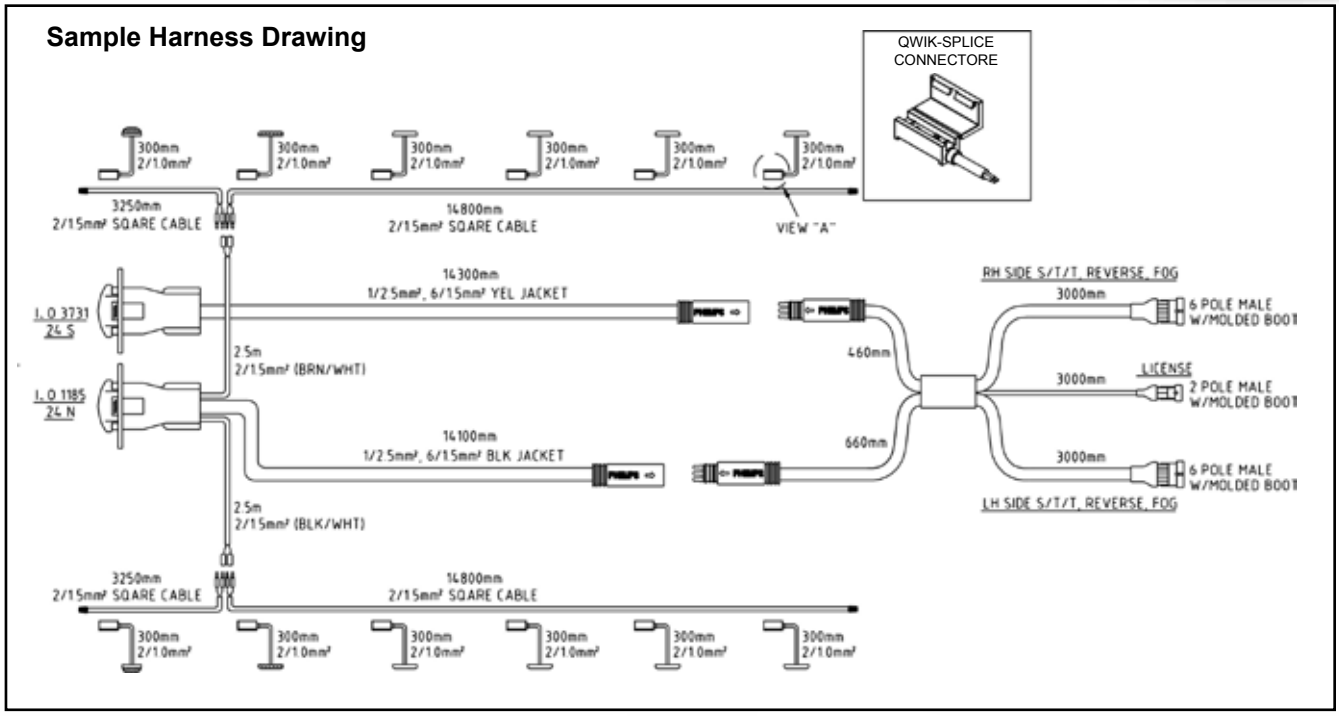


- **Reduce warranty repair costs** – Phillips harnesses feature a “Corrosion-free” guarantee
- **Easy to install** – Industry-standard lamp pigtails are indexed to ensure fast, secure snap together connections
- **Easy to maintain** – Should accidental damage occur, simply unplug the module and replace
- **Molded connections** keep moisture, salt and chemicals from penetrating the electrical system
- **Superior quality** – 100% factory tested components
- **Corrosion reducing grease** on all modules





Sample Harness Drawing







CUSTOM CAPABILITIES

STA-DRY® Electrical Harness Systems are offered in “Universal” style for common trailer designs or customized for individual trailers. Please contact your local Phillips representative for more information regarding custom-ization or any of the follow trailer types. If you don’t see your trailer type, just ask!

- Curtainsides
- Tippers
- Dry Vans
- Skeletons
- Flatbeds
- Tankers
- Many others

BUCKET DISPLAY RACK

Increase Product Visibility And Sales With Our Most Popular Items

- Great as an aisle display
- Easy to assemble and maintain
- Customizable combinations of plugs, sockets, air and electrical products geared toward YOUR customers!
- Includes FREE merchandising tools - Bucket display, side panels, headers card and literature



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