

MUNICIPALITIES ESSENTIALS



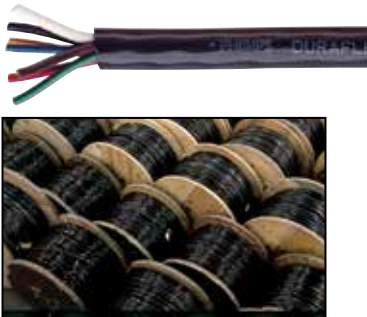
For a complete listing of Phillips products, please see our full line catalog or visit www.phillipsind.com

ARCTIC SUPERFLEX™



7 CONDUCTOR - 1/12, 6/14 ga. .570 O.D. Black - Brown - Blue - Green - Red - White - Yellow				
Part No.	Length	Package	Stranding 14 ga.	Stranding 12 ga.
3-622	100'	Spool	41 x 30	65 x 30
3-623	250'	Spool	41 x 30	65 x 30
3-624	500'	Spool	41 x 30	65 x 30
<div><div><ul style="list-style-type: none">• Resistant to chemicals, oils and fuel• Paper wrapped for ease of stripping• Concentric jacketing - copper centered in jacket for consistent abrasion resistance</div><div><ul style="list-style-type: none">• Designed for durability in extreme temperatures• Stays flexible from -85°F to 175°F (-65°C to 79°C)• Dark blue jacket color</div></div>				

DURAFLEX™



7 CONDUCTOR - 1/12, 6/14 ga. .500 O.D. Black - Brown - Blue - Green - Red - White - Yellow		
Part No.	Length	Package
3-242	100'	Spool
3-243	250'	Spool
3-244	500'	Spool
<div><div><ul style="list-style-type: none">Resistant to chemicals, oils and fuelPaper wrapped for ease of strippingConcentric jacketing - copper centered in jacket for consistent abrasion resistance</div><div><ul style="list-style-type: none">For general trailer re-wiringBlack jacketStays flexible to -40°F (-40°C)Meets SAE J1128 specifications</div></div>		

Primary Wire



2-121	14 ga., black, 100' spool
2-122	14 ga., blue, 100' spool
2-123	14 ga., brown, 100' spool
2-124	14 ga., green, 100' spool
2-125	14 ga., red, 100' spool
2-126	14 ga., white, 100' spool
2-127	14 ga., yellow, 100' spool
<div><div><ul style="list-style-type: none">SAE Type GPT (General Purpose Thermoplastic) wireResistant to acids, greases, oils and fuelsGood abrasion resistanceConcentric jacketing allows for easy wire stripping</div><div><ul style="list-style-type: none">Soft annealed copper conductors for flexibilityOperating temperature range -40°F to 150°F (-40°C to 66°C)Meets SAE J1128, type GPT</div></div>	

Parallel Wire



Part No.	Gauge	External Jacket Color	Internal Jacket Color	Length	Std. Pkg.
2-402	2/14	Gray	Black, white	100'	Spool
2-403	2/12	Gray	Black, white	100'	Spool
<div><div><ul style="list-style-type: none">SAE Type GPT (General Purpose Thermoplastic) wireResistant to acids, greases, oils and fuelsGood abrasion resistanceConcentric jacketing allows for easy wire stripping</div><div><ul style="list-style-type: none">Soft annealed copper conductors for flexibilityOperating temperature range -40°F to 150°F (-40°C to 66°C)Meets SAE J1128, type GPT</div></div>					

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STA-DRY® Heat Shrink Connectors

Ring Terminals

Part No.	Color	Gauge	Stud	Qty.	Pkg.
1-1924-100	Blue	16-14	1/4"	100	Bag
1-1936-100	Yellow	12-10	3/8"	100	Bag

- Crimp provides mechanical reliability for excellent conductivity
- Seal prevents wire corrosion...keeps out moisture and road salts

Butt Connectors

Part No.	Color	Gauge	Qty.	Pkg.
1-1961-100	Red	22-18	100	Bag
1-1961-500	Red	22-18	500	Bag
1-1962-100	Blue	16-14	100	Bag
1-1962-500	Blue	16-14	500	Bag
1-1963-100	Yellow	12-10	100	Bag
1-1963-500	Yellow	12-10	500	Bag

- Crimp provides mechanical reliability for excellent conductivity
- Seal prevents wire corrosion...keeps out moisture and road salts



Heat Required



CLEAR-VU™ Battery Cable

Part No.	Color	Size	Length	Stranding	Package
3-532	Clear	2/0 ga.	25'	259 x 23	Spool
3-565	Translucent red	2/0 ga.	25'	259 x 23	Spool
3-566	Translucent smoke	2/0 ga.	25'	259 x 23	Spool

- Easy to see corrosion creeping through your battery cable
- Prevents premature battery, starter and alternator replacement
- Rope-style stranding for flexibility
- Easy to strip
- Superior abrasion resistance
- Flexible from -40°F to 150°F (-40°C to 66°C)
- Meets SAE J1127 SGT specifications



CLEAR-VU™ Battery Jumpers - OEM Replacement

9-350	2/0 CLEAR-VU™ clear, 2 lug, 8"
9-351	2/0 CLEAR-VU™ translucent smoke, 2 lug, 8"
9-352	2/0 CLEAR-VU™ translucent red, 2 lug, 8"

- Replaces OEM battery cables
- Translucent cable allows you to see corrosion
- Heavy wall shrink tubing stops water and contaminants from entering charging system
- Rope-style stranding for flexibility
- Operating temperature range -40°F to 150°F (-40°C to 66°C)
- Non-rotating 3/8 in. lugs



Battery Fastener Hardware

8-662	Nut, closed-cap, 3/8" - 16, stainless steel, group 31, universal	Qty. 10
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- Meets or exceeds OEM, SAE or MIL specifications, where relevant



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Copper Battery Terminals



Straight Clamp		
8-1160	Crimp, straight, 2/0 ga., positive	
8-1161	Crimp, straight, 2/0 ga., negative	

Straight Elbow		
8-1260	Crimp, left elbow, 2/0 ga., positive	
8-1261	Crimp, left elbow, 2/0 ga., negative	

Right Elbow		
8-1360	Crimp, right elbow, 2/0 ga., positive	
8-1361	Crimp, right elbow, 2/0 ga., negative	

Flag		
8-1460	Crimp, flag, 2/0 ga., positive	
8-1461	Crimp, flag, 2/0 ga., negative	

Straight Clamp		
8-1763	Crimp, group 31, seated, single, 2/0 ga., 3/8" hole	
8-1863	Crimp, group 31, seated, dual, 2/0 ga., 3/8" hole	

Non-Rotating Copper Lugs		
8-4763	Heavy duty lug, group 31, locking, single, 2/0 ga., 3/8" hole	
8-4863	Heavy duty lug, group 31, locking, dual, 2/0 ga., 3/8" hole	

- Copper battery connectors are tin plated for added conductivity and corrosion resistance
 - Can be crimped or soldered
- Exceeds SAE conductivity standard J163 and J1811
 - Works well with solder slugs

STA-DRY® Flexible Dual Wall



6-305	Heat shrink tubing - flexible dual wall, 1-2/0 ga., black, 6"
6-306	Heat shrink tubing - flexible dual wall, 1-2/0 ga., red, 6"

- Waterproofs, seals and insulates
 - Adhesive lined cross-linked polyolefin
- Color-coded for polarity identification
 - Dielectric strength: 700 volts

Mini-Jet Torch



4-054	Mini-jet torch, blister pack
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- For small jobs and quick repairs
- Lifetime waterproof ignition system
- Refillable tank provides up to 30 minutes of butane capacity
- Adjustable gas flow with wind-resistant flame
- Protective flip-open cap
- Meets Consumer Product Safety Commission 16CFR Part 1212 - Safety Standard for Multi-Purpose Lighters (Child Resistant)

Specifications		
Length	35 mm	(1.4 in)
Height	71 mm	(2.8 in)
Width	20 mm	(0.8 in)
Weight (when gas-filled)	46 g	
Flame temperature	1300°C (2500°F)	
Gas container capacity	5 ml	
Operating capacity (one gas filling)	30 min.	

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Professional Torch

4-057	Professional torch, box
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- For daily professional use
- Adjustable flame
- Refillable tank provides up to 220 minutes of butane capacity
- Brass body covered with a protective grip
- Waterproof piezoelectric ignition system
- Removable base provides for storage flexibility
- Meets Consumer Product Safety Commission
- 16CFR Part 1212 - Safety Standard for Multi-Purpose Lighters (Child Resistance)

220 MINUTE CAPACITY

Specifications		
Length	100 mm	(1.4 in)
Height W/O stand	138 mm	(2.8 in)
Width	36 mm	(0.8 in)
Weight (when gas-filled)	280 g	
Flame temperature	1300°C (2500°F)	
Gas container capacity	60 ml	
Operating capacity (one gas filling)	220 min.	



6/0 Cable Cutter

4-147	Heavy duty cutter, hand held
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- Cuts cable up to 6/0 ga. (250 MCM)
- Blades made of carbon steel for strength and long life
- 26 in. handles



Heavy Duty Battery Terminal Crimper

4-152	Hand-held, hex crimp
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- Hand-held
- Crimps 8 ga. thru 6/0 ga.
- 26 in. handles



Wire Stripping & Crimping Tool

4-214	Wire stripping and crimping tool
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- Multi-purpose tools
 - Strips wire sizes from 22 thru 10 ga.
 - Crimps insulated and non-insulated terminals
 - Machined for precision wire cuts and strips
- Color-coded to ensure proper crimp
 - Overlapping teeth provide a consistent cut
 - Insulated handles for safety



Self-Adjusting Wire Stripper/Cutter

4-220	Self-adjusting wire stripper/cutter
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- Strips wire from 20 thru 12 ga.
- Blades adjust automatically to the wire being stripped
- Built-in cutter blades
- One set of teeth grip the wire and the second set cuts and strips the insulation



Ratcheting Crimper

4-230	Ratcheting crimper
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- Calibrated for STA-DRY® heat shrink connectors
- Assures the proper crimp force will be applied to heat shrink connectors every time
- Color-coded crimp nest for ease and accurate crimp
- Designed to install 20 thru 8 ga. terminals



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V-CHECK™ II BATTERY STATUS INDICATOR



- Provides a digital display of the battery voltage (9-16 volts), and the battery state of charge
- Features the `Go/No-Go` LED – Know instantly if your battery is ready for the ride!
- Easy to install
- Measurement 2.25 in. x 2.25 in.
- Voltage color guide sticker included

How it works:

DIGITAL VOLT DISPLAY

- Voltage measurement and battery state of charge will appear every 15 seconds
- If the voltage is 15.0V – 16.0V the state of charge will be displayed as 'HI'
- If the voltage is 9.0V – 11.2V the state of charge will be displayed as 'SOS'
- If the voltage is below 9.0V the digital display will read as _9.0 with a state of charge displayed as `SOS`

GO/NO-GO LED COLOR CODE

- GREEN: 12.6V – 16.0V
- YELLOW: 12.4V – 12.5V
- RED: 12.3V and below

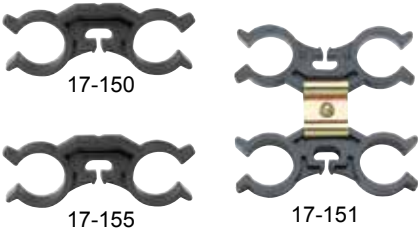
SLEEP MODE

- Unit will enter sleep mode after 2 days of no activity
- Unit will wake when voltage fluctuates +/- 0.2V

Voltage Measurement	State of Charge	LED Color Code
15.0V - 16.0V	HI	GREEN ●
12.6V - 14.9V	95% - 100%	GREEN ●
12.4V - 12.5V	75% - 80%	YELLOW ●
11.3V - 12.3V	10% - 70%	RED ●
11.2V - 9.0V	SOS	RED ●
_9.0V (Below 9.0V)	SOS	RED ●

60-9100	V-CHECK™II battery status indicator, digital with 'Go/No-Go' LED, 12V
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Hose Separators



17-150	2-hose separator, 3/8" hose
17-151	4-hose separator, 3/8" hose
17-155	2-hose separator, 1/2" hose

- Keeps nylon air hoses secure and out of the way
- For tractor coiled air, trailer slider hose applications

Cable Ties



8-43117	11" black, nylon, 50 lb., 100 pcs.
8-43147	14" black, nylon, 50 lb., 100 pcs.
8-44147	15" black, nylon, 120 lb., 100 pcs.

- UL recognized / CSA approved
- Operating temperature -4°F to 185°F (-20°C to 85°C)
- Minimum installation temperature: 5°F (-15°C)

Dual Tie Wraps



8-45134	Dual clamp cable ties - black, 13" length, 25 pcs.
8-45194	Dual clamp cable ties - black, 19" length, 25 pcs.

- Dual-head design lets you wrap two separate bundles with a single cable tie
- Mounting holes allow easy attachment to walls, trailers, and vehicle chassis
- Minimum 150 lb. tensile strength
- Provides parallel spacing between cable bundles, hoses, tubing or wires
- Operating temperature -40°F to 230°F (-40°C to 110°C)
- Minimum installation temperature: -40°F (-40°C)

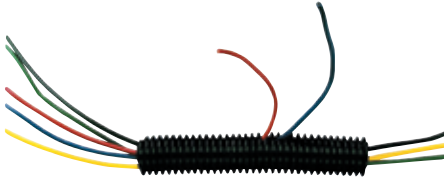
Spiral Wrap



Part No.	Description	Length
5-525	3/8" I.D.	100'
5-527	1/2" I.D.	100'
5-530	5/8" I.D.	100'
5-532	3/4" I.D.	100'
5-534	1" I.D.	100'
5-536	1 3/8" I.D.	100'
5-538	2" I.D.	100'

- For wrapping cables, wires, hoses or tubing
- Protects against abrasion, tangling, chaffing and wire pull-out
- High abrasion resistance
- Unaffected by most solvents
- UV resistant
- Operating range -40°F to 280°F (-40°C to 137°C)

Polyethylene Split Loom



Part No.	I.D.	Pkg.	Length
5-025	3/8" I.D.	Box	100'
5-027	1/2" I.D.	Box	100'
5-032	1" I.D.	Box	100'
5-034	1 1/4" I.D.	Box	100'
5-036	1 1/2" I.D.	Box	100'
5-040	2" I.D.	Box	100'

Popular choice for routing and protection of wires

- Provides crush-resistant protection for electrical wires
- Protects electrical wires even when bent or twisted
- Wires are inserted quickly, eliminating the time needed for tape, braid or cloth loom
- Lightweight with excellent flexibility
- Good abrasion and chemical resistance
- Operating temperature range -40°F to 200°F (-40°C to 93°C)

Neoprene Grommets



Part No.	Groove Width	Drill Diameter	Center Hole	Qty.
5-710	1/16"	5/16"	3/16"	50
5-711	1/16"	7/16"	5/16"	50
5-712	1/16"	11/16"	7/16"	50
5-713	1/16"	7/8"	5/8"	50
5-714	1/4"	13/16"	9/16"	50
5-715	1/4"	1"	11/16"	50
5-716	1/4"	1 1/6"	3/4"	50

Protect your wire and cable from sharp edges

- Eliminates sharp and rough edges from through-holes
- Made from neoprene for durability and flexibility
- Adds a neat, clean look to any installation
- High resistance to acids, greases, oils and diesel fuels
- Grommets for 1/16 in. and 1/4 in. panels

Rubber Cushion Clamps



5-45044	1/4" mounting hole, 1/4" tube size, 1/2" width
5-45064	1/4" mounting hole, 3/8" tube size, 1/2" width
5-45124	1/4" mounting hole, 3/4" tube size, 1/2" width
5-46084	3/8" mounting hole, 1/2" tube size, 5/8" width
5-46104	3/8" mounting hole, 5/8" tube size, 5/8" width
5-46164	3/8" mounting hole, 1" tube size, 5/8" width

- Provides electrical insulation and vibration absorption
- Allows for easy adding or re-routing of wires
- Recommended for long-term applications
- Galvanized steel for corrosion protection
- Elongated holes allow for minor adjustments of clamped parts

Light Duty Cables



6-Way Coil - 6/16 ga.

19-6708	8', with THERMOSEALED™ plugs	*
19-6710	10', with THERMOSEALED™ plugs	*
19-6712	12', with THERMOSEALED™ plugs	*
19-6715	15', with THERMOSEALED™ plugs	*

* Working length - As measured by pull force per SAE J2222. Length of actual cable is significantly longer.

4-Way Coil - 4/16 ga.

19-4708	8', with THERMOSEALED™ plugs	*
19-4710	10', with THERMOSEALED™ plugs	*
19-4712	12', with THERMOSEALED™ plugs	*
19-4715	15', with THERMOSEALED™ plugs	*

* Working length - As measured by pull force per SAE J2222. Length of actual cable is significantly longer.

- For light duty towing applications such as boats and utility trailers
- Plugs are molded for moisture and corrosion resistance
- Same heavy duty jacket as our PERMACOIL™ and ABS PERMACOIL™
- Flexible from -87°F to 150°F (-66°C to 66°C)



Molded plug for long life!

6-Way Connector



15-630	6-way plug with cable guard
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- Heavy duty, reinforced zinc die-cast housing
- Brass terminations for superior conductivity
- Rugged finger grips for easy coupling/uncoupling
- 15-611 replacement insert fits 15-630 plugs

7-Way Zinc Die-Cast Connectors



15-710	Heavy duty, reinforced zinc die-cast plug
15-730	Heavy duty, reinforced zinc die-cast plug with cable guard
15-730B	Heavy duty, reinforced zinc die-cast plug with cable guard, individually bagged

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

WEATHER-TITE™ PERMAPLUG™



16-730	WEATHER-TITE™ PERMAPLUG™
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- WEATHER-TITE™ seal blocks all contaminants from entering the electrical system, creating a complete seal!
- UNBREAKABLE, non-corrosive housing
- 360° ratcheting compression cable clamp
- Thread sealed screws prevent wire pull-out
- Spring-wrapped, machined brass compression pins
- 15-715 replacement insert
- 5-750 replacement rubber seal
- Patent No. 8,192,216

7-Way Blade Connector



16-713	7-way blade connector
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- Light duty truck and RV connections
- Non-corrosive housing
- Large finger grips for easy coupling/uncoupling
- Brass contacts for superior conductivity
- Use with 16-714 socket

6-Way Socket



15-600	6-way, wire insertion, split pin
<ul style="list-style-type: none">• Heavy duty, zinc die-cast housing for durability• Elongated holes for mounting adaptability• Stainless steel hinge pin and spring for long life• Full-opening lid• Reduce exposure to contaminants and moisture, use socket boot P/N 15-640	

Socket Boot



15-640	Fits 15-400 and 15-600
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7-Way Blade Socket



16-714	7-way blade socket
<ul style="list-style-type: none">• Light duty truck and RV OEM connections• Non-corrosive housing for long life• Brass terminations for superior conductivity• Mates with 16-713 plug	

Wire Insertion & Bullet Termination Sockets



16-720	2-hole, wire insertion, split pin
16-724	2-hole, bullet termination, split pin
<ul style="list-style-type: none">• Inner cavity sealed to prevent contaminants from passing to wire harness• Non-corrosive housing• Resists magnesium chloride, salt, oil, grease and fuels• Extended front barrel for additional cable support• Slanted 5° for moisture drain• Unbreakable housing and lid• Stainless steel hinge pin and spring• Elongated holes for mounting adaptability• Meets SAE J560 specifications• For solid pin sockets, please contact customer service	

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CLEAR-VU™ Junction Box



15-961	CLEAR-VU™ grey junction box
<ul style="list-style-type: none">• Larger junction box accepts ABS cable and additional wiring• Ring termination• Pass-through grommets accommodate up to .80 O.D. cable• Seven #10 stud posts• Hole pattern is 7.37 in. center to center• Box measures approximately 6 5/8 in. long x 3 3/4 in. wide x 2 1/2 in. deep at its widest points	

Continuous Duty



Part No.	Volt	Amps	Inrush Amps
54-140	12 VDC	80	200
<ul style="list-style-type: none">• Continuous duty• External ground• For liftgate applications			

Bulk Heavy Duty Arctic Rubber Air Hose

11-8185-250	3/8" I.D. 250' spool
<ul style="list-style-type: none">• Heavy duty EPDM rubber air brake hose<ul style="list-style-type: none">- 4-spiral polyester reinforced rubber- Resists cracking, kinking and weathering- Provides excellent abrasion resistance• -65°F to 200°F (-53°C to 93°C)• Burst pressure: 871 PSI• Operating pressure: 145 PSI• Meets SAE J1402 low temperature requirements	

Arctic Protection
-65°F to 200°F
(-53°C to 93°C)



Bulk Heavy Duty Rubber Air Hose

11-8180-250	3/8" I.D. 250' spool, black
<ul style="list-style-type: none">• Heavy duty EPDM rubber air brake hose<ul style="list-style-type: none">- 4-spiral polyester reinforced rubber- Resists cracking, kinking and weathering- Provides excellent abrasion resistance• -40°F to 200°F (-40°C to 93°C)• Burst pressure: 871 PSI• Operating pressure: 145 PSI• Meets SAE J1402 specifications	



Type A - Single Wall Tubing



11-250	1/4" O.D., black, 100', box
<ul style="list-style-type: none">• Can save as much as 75% in weight over copper tubing or rubber hose• Resists road salts, oil, grease, gasoline, diesel fuel and moisture• Bends easily without deforming• Operating temperature range -40°F to 200°F (-40°C to 93°C)• Ideal for pneumatic accessories that operate off of the air system• Meets SAE J844 type "A" specifications	

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Type B - Reinforced Tubing



11-261	3/8" O.D., black, 100', box
11-264	1/2" O.D., black, 100', box
11-266	1/2" O.D., blue, 100', box
11-267	1/2" O.D., red, 100', box
11-270	5/8" O.D., black, 100', box

- Can save as much as 75% in weight over copper tubing or rubber hose
- Resists road salts, oil, grease, gasoline, diesel fuel and moisture
- Bends easily without deforming
- Ideal for pneumatic accessories that operate off of the air system
- Meets SAE J844 type "B" specifications
- Operating temperature range -40°F to 200°F (-40°C to 93°C)

Dust Boot



Part No.	Tube Size	Qty.
12-90040	1/4"	10
12-90060	3/8"	10
12-90080	1/2"	10

- Protects air fittings from the elements, ensuring an easy release every time

Plug



Part No.	Tube Size	Qty.
12-90400	1/4"	10
12-90600	3/8"	10
12-90800	1/2"	10

- Provides a positive seal of protection for unoccupied parts

QWIK-FIT™ Shop Kit



80-1292

110 pieces
12" x 18"

Kit

80-1292	QWIK-FIT™ shop kit
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80-1292 Contents:

Part No.	Description	Tube Size	Thread Size	Kit Qty.
12-90040	1/4" dust boot	-	-	10
12-90060	3/8" dust boot	-	-	10
12-90080	1/2" dust boot	-	-	10
12-93022*	Male connector	1/8"	1/8"	5
12-93042	Male connector	1/4"	1/8"	5
12-93044	Male connector	1/4"	1/4"	10
12-93064	Male connector	3/8"	1/4"	10
12-93066	Male connector	3/8"	3/8"	10
12-93086	Male connector	1/2"	3/8"	5
12-95044	Straight union	1/4"	-	5
12-95066	Straight union	3/8"	-	5
12-95088	Straight union	1/2"	-	5
12-951010	Straight union	5/8"	-	5
12-98064**	45° male elbow (swivel)	3/8"	1/4"	5
12-98066**	45° male elbow (swivel)	3/8"	3/8"	5
12-98086**	45° male elbow (swivel)	1/2"	3/8"	5

*Does not meet DOT or SAE specifications for air brake applications. Color of fittings differs from those that meet DOT & SAE specifications. NON DOT & SAE fittings are grey and orange in color.

** Swivel to final position only. Not designed for constant rotation.

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