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









81 Solder, Slugs & Tools

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ELECTRICAL WIRE/CONNECTOR IDENTIFICATION

Wire Conversion Table - Bare Conductor		
Gauge	Dia (inches)	Dia (mm)
4/0	0.460	11.68
3/0	0.410	10.41
2/0	0.365	9.27
1/0	0.325	8.26
1	0.289	7.34
2	0.258	6.55
3	0.229	5.82
4	0.204	5.18
5	0.182	4.62
6	0.162	4.11
7	0.144	3.66
8	0.128	3.25
9	0.114	2.90
10	0.102	2.59
11	0.091	2.31
12	0.081	2.06
13	0.072	1.83
14	0.064	1.63
15	0.057	1.45
16	0.051	1.30
17	0.045	1.14
18	0.040	1.02
19	0.036	0.91
20	0.032	0.81
21	0.0285	0.72
22	0.0253	0.64
23	0.0226	0.57
24	0.0201	0.51

Stud Size Chart		
	Inches	mm
	#0	1.52
	#1	1.85
	#2	2.18
	#3	2.51
	#4	2.85
	#5	3.18
	#6	3.50
	#8	4.17
	#10	4.83
	#12	5.50
	1/4	6.35
	5/16	7.93
	3/8	9.53
	7/16	11.10
	1/2	12.70
	5/8	15.90
	3/4	19.10
	7/8	22.23
	1	25.40

BATTERY TERMINAL PROTECTOR



Art. No. 890.104 – 150 mL

Durable protection for battery terminals. Resistant to variations in temperature.

- Durable temperature resistant film
- Protects charging clips
- Protects electrical push-on-connectors against corrosion and climactic effects as well as battery acid
- Prevents transition resistance and voltage drop, thus extending the battery life
- Colour: Blue
- Similar product to Ford Battery Terminal Protector

Note: Do not spray on paint! Remove residue on the paint immediately with brake cleaner, otherwise spots could appear.

BATTERY TERMINAL CLEANER



Art. No. 890.104150 475 g

High performance non-chlorinated formula cleans battery terminals and posts

- This advanced formulation serves three applications in a single product:
 - Cleans acid deposits
 - Detects battery leaks
 - Neutralizes acid
- As a cleaner, the product's foaming action penetrates and emulsifies dirt, grease and deposits
- As a detector, the foamy, light red formula turns blue in the presence of acid
- As a neutralizer, additives in the formula increase the pH to a safer level
- Excellent for use on batteries, terminals, cables, brackets and housings for everything including golf carts, boats, tractors, fork- lifts, construction equipment, floor scrubbers and more

BATTERY TERMINAL GREASE



Art. No. 890.1041 93 g

Highly adhesive, water-resistant red paste protects battery poles and terminals from oxidation for extended periods

Use: Clean battery pole thoroughly with mechanical means, then apply battery terminal grease and spread around.

TEMPERATURE REDUCTION SPRAY



Art. No. 890.001200 236 g

A non-flammable freezer spray for universal use in repair and assembly work and for troubleshooting.

- Essential for tracing electrical faults and for troubleshooting equipment parts with temperature-sensitive components.
- Ideal for removal of chewing gum residue, animal excrement and candle wax residue.
- Evaporates completely without leaving any residue on the treated surface.
- Good material compatibility with the most common substrates. (Compatibility test is recommended for best results)
- Application on live electrical parts is only recommended at low voltages [$<50V$ (AC) and $<120V$ (DC)]. In all other cases ensure that the electrical system in question is completely disconnected from the power supply.
- Spray at a distance of 2cm-8cm (1" - 3") directly onto the area to be treated.
- There is no risk of explosion or fire under practical application conditions.

DIELECTRIC GREASE



Art. No. 893.844100 85 g

A superior high thermal conductivity silicone heat transfer compound, offering excellent protection

- For use in electrical insulation, damping and lubrication of brass components and O-Rings
- High thermal conductivity
- Withstands temperatures to $204^{\circ}C$ ($400^{\circ}F$)
- Silicone-based compound
- Lubricates rubber and plastic
- Protects electrical components
- Prevents oxidation of electrical contacts or terminals
- Excellent for light bulb sockets

CONTACT SPRAY



Art. No. 890.100 223 g

Helps eliminate ignition problems

Stops and avoids any faults in the ignition and electrical system caused by dampness, ex: ignition coils, distributors, spark plug cables, connectors, etc.

CONTACT CLEANERS AND PROTECTORS



Art. No. 893.65 154 g

Contact SW **Electrical Cleaning Spray**

- Special spray solvent for contacts and electronic parts
- Removes colophonium residues
- Will clean badly soiled electrical appliances, electrical construction parts, relays and plug strips
- Does not attack plastic or most common construction materials



Art. No. 893.70 167 g

Contact SL **Protective Lacquer**

- Insulates, protects and seals
- Insulates wire connections and push-on connectors
- Protects against electrical shorts in high and low power circuits
- Prevents or eliminates fine shorts in transformer motors
- Seals battery cables and protects against corrosion
- Seals against penetration of humidity
- Shiny, flexible finish
- Protects against water, weak acids and alkalis and atmospheric penetration
- Adheres to metal, e.g. copper, brass, steel, chrome and aluminum as well as plastic, wood and cardboard
- Remove overspray with acetone
- Temperature range: -70 °C to +100 °C (-94 °F to +212 F)



Art. No. 893.60 159.4 g

Contact OL **Oxidation Remover**

- Cleaning agent for electrical contacts
- Will clean all kinds of electrical contacts
- Removes oxide and sulphide layers, resin, oil and dirt
- Eliminates high resistance
- Eliminates crackling noises immediately
- Does not affect usual construction materials
- Contact OL must have dried off completely before the electrical system can be put back into operation!



Art. No. 893.61 153 g

Contact OS **Oxidation Protection**

- For new electrical contacts, switches and electromechanical engine parts
- Long term oxidation prevention
- Excellent lubricator for small engine parts
- Will remove dirt, resin, oil and metal deposits

STABILANT 22A



Art. No. 893.622 – 15 mL

Stabilant 22A offers the reliability of a soldered joint without bonding the contacting surfaces together on connectors in electromechanical contact applications

Application Areas:

Electronic ignition systems, prevent sensor malfunctions, electric rear-view mirrors, alternators and/or generators, solenoid door and trunk locks, horn circuits, wiring harnesses, door activator switches, fuses, power windows, radios, tape decks and/or speakers, diagnostic equipment

Benefits:

- Cuts down on costly replacement of sensors, switches, motors, etc.
- Biodegradable
- Nontoxic
- Nonflammable
- Not prone to evaporation
- Will not crosslink

Characteristics:

- Enhances conductivity within a contact without causing electrical leakage between adjacent contacts
- Provides improved connector contact
- Avoids voltage drops, which can cause connector overheating
- Reduces the possibility of premature fuse failure
- Interconnects speaker leads; ensures reliability and reduces distortion
- Colour: Clear/15 ml

AIR DUSTER



Art. No. 890.500856 284 g

Compressed air spray removes dust effortlessly from inaccessible places.

For simple handling

- Always ready for use, no compressor, electrical cables or compressed air hoses necessary
- Precise spraying with long spray tube

For high pressure and density

- Time-saving cleaning and removal of dust
- Intensive and powerful air flow

For zero residue

- Does not attack surface finishes
- Moisture free
- Does not contain VOC's

Areas of Application:

Suitable for maintenance work and repairs of data processing equipment, printers, copiers, electronic components and modules, fine mechanisms, optical instruments, cameras, lenses, projectors, housings, automotive electronics, magnetic tapes, magnetic heads, measuring equipment, precision parts, microscopes, watches and model making

Instructions for Use:

Insert spray tube in the opening of the spray valve. Always hold can vertically when spraying; do not invert can while spraying. The can retains its optimal pressure if the spray valve is operated in short bursts.

Note: Do not spray into eyes, mouth or other body openings. Do not spray onto hot surfaces.

PREMIUM BATTERY CABLE



Description	Size	Length	Art. No.
Black	6 GA	50 FT	772.61
	4 GA	50 FT	772.41
	2 GA	25 FT	772.21
	1/0	25 FT	772.10
	2/0	25 FT	772.20
Red	6 GA	50 FT	772.6
	4 GA	50 FT	772.4
	2 GA	25 FT	772.2
	1 GA	25 FT	772.11

Note: Fine strand technology makes this cable extremely flexible.

- Fine strand 100% copper wire
- Fine stranding makes it more flexible than standard battery cable
- Excellent resistance to oil, acid, UV light, ozone and water
- Superior abrasion resistance and flexibility
- Copper conductor for maximum conductivity

Specifications:

Jacket

- Insulated with oil & water resistant (SGT) thermoplastic rubber compound
- A water resistant safely insulator separates the outer sheath
- Temperature rated to 105°C
- Meets SAE J378C/J1127
- Meets UL 62 for SJE, SE, SEO

Applications:

- Automotive engine parts and connectors where superior performance in a wide range of operating conditions and environments apply.
- Marine applications

STANDARD BATTERY CABLE



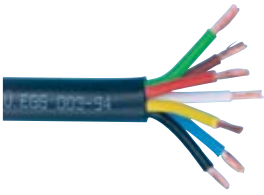
Description	Size	Length	Art. No.
Black	8 GA	50 FT	772.08
	6 GA	50 FT	772.061
	4 GA	50 FT	772.041
	2 GA	25 FT	772.021
	1 GA	25 FT	772.01
	1/0	25 FT	772.010
	2/0	25 FT	772.020
	3/0	25 FT	772.030
	4/0	25 FT	772.040
Red	8 GA	50 FT	772.081
	6 GA	50 FT	772.06
	4 GA	50 FT	772.04
	2 GA	25 FT	772.02
	1 GA	25 FT	772.011
	1/0	25 FT	772.0101
	2/0	25 FT	772.0201
	4/0	25 FT	772.0401

Features:

- PVC Insulation resists abrasion, fuel, oil, acid and salt
- Insulation is flame retardant
- Meets or exceeds SAU J1127, SGT type 221°F (105°C), 8 Gauge Exceeds J1128
- Rated 60V
- Meets AWG specifications
- Copper conductor for maximum conductivity

Size	Colour Coded Stripe
8 GA	Grey
6 GA	Grey
4 GA	Grey
2 GA	Green
1 GA	Pink
1/0	Black
2/0	Orange
3/0	Purple
4/0	Yellow

UTILITY TRAILER LIGHTING CABLE



- For truck, bus, farm construction and commercial applications
- For use at 50 volts or less
- Fine stranded copper conductor for maximum conductivity and flexibility
- Heavy duty PVC outer jacket protects against abrasion and resists moisture, oil and salt damage.
- Meets or exceeds S.A.E. J1128 & ATA specifications
- Flexible for easy routing, cold weather rated
- Colour coded conductors for easy circuit identification
- Temperature range: -40°C to +80°C (-40°F to 176°F)

Size	Gauge	Art. No.
100 ft.	7 strands - 14GA	772.714
100 ft.	6 strands - 14GA 1 strand - 12GA (white)	772.7140

PREMIUM SXL WIRE



- Premium grade cross linked polyethylene (XLPE) insulation provides excellent durability and heat resistance
- Designed for harsh, hot environments
- For use at 50 volts or less
- Insulation rated -51°C to 125°C (-60°F to 257°F)
- Meets and exceeds SAE J1128
- Bare copper conductor
- Solid plastic insulation
- Single conductor
- Great flexibility
- Permanent colour
- Resistant to oil, grease, gasoline and most other chemicals
- Will not melt when exposed to heat

Description	Size	Length	Art. No.
Yellow	14 GA	100 FT	774.11.14
	16 GA		774.11.16
	18 GA		774.11.18
Red	12 GA		774.22.12
	14 GA		774.22.14
	16 GA		774.22.16
	18 GA		774.22.18
Black	12 GA		774.33.12
	14 GA		774.33.14
	16 GA		774.33.16
	18 GA		774.33.18
Green	12 GA		774.44.12
	14 GA		774.44.14
	16 GA		774.44.16
	18 GA		774.44.18
Blue	12 GA		774.55.12
	14 GA		774.55.14
	16 GA		774.55.16
	18 GA		774.55.18
White	12 GA		774.66.12
	14 GA		774.66.14
	16 GA		774.66.16
	18 GA		774.66.18
Brown	14 GA		774.77.14
	16 GA		774.77.16
	18 GA		774.77.18

LOUDSPEAKER WIRE



Plastic insulated twin

Gauge	Colour	No. of Strands	Dia (mm)	Roll Length (m)	Art. No.
18	Brown/Red	2	0.75	50	770.300

PARALLEL WIRE



PVC round jacket

Gauge	Colour	No. of Strands	Dia (mm)	Roll Length (m)	Art. No.
15	Black/Red	2	1.5	25	770.202

PVC COATED PRIMARY WIRE - GPT



- Plastic coated primary wire is S.A.E. type GPT
- For use at 50 volts or less
- Insulation rated -40°F to 176°F (-40°C to 80°C)
- Meets and exceeds SAE J1128
- PVC insulation resists abrasion, fuel, oil, acid and salt
- Fine stranded copper conductor for maximum conductivity and flexibility

Description	Size	Length	Art. No.
Yellow	10 GA	100FT	774.01.10
	12 GA		774.01.12
	14 GA		774.01.14
	16 GA		774.01.16
	18 GA		774.01.18
	20 GA		774.01.20
	22 GA		774.01.22
	14 GA	1000 FT	774.0114.1000
Red	16 GA		774.0116.1000
	8 GA		774.02.08
	10 GA	100FT	774.02.10
	12 GA		774.02.12
	14 GA		774.02.14
	16 GA		774.02.16
	18 GA		774.02.18
	20 GA		774.02.20
	22 GA		774.02.22
Black	14 GA	1000 FT	774.0214.1000
	16 GA		774.0216.1000
	8 GA		774.03.08
	10 GA	100 FT	774.03.10
	12 GA		774.03.12
	14 GA		774.03.14
	16 GA		774.03.16
	18 GA		774.03.18
	20 GA		774.03.20
Green	22 GA		774.03.22
	12 GA	1000 FT	774.0312.1000
	14 GA		774.0314.1000
	16 GA		774.0316.1000
	18 GA		774.0318.1000
	10 GA		774.04.10
	12 GA		774.04.12
	14 GA		774.04.14
Blue	16 GA	100 FT	774.04.16
	18 GA		774.04.18
	20 GA		774.04.20
	22 GA		774.04.22
	14 GA	1000 FT	774.0414.1000
	16 GA		774.0416.1000
	10 GA		774.05.10
	12 GA		774.05.12

Description	Size	Length	Art. No.
Blue	14 GA	100FT	774.05.14
	16 GA		774.05.16
	18 GA		774.05.18
	20 GA		774.05.20
	22 GA		774.05.22
	16 GA	1000 FT	774.0516.1000
White	10 GA	100 FT	774.06.10
	12 GA		774.06.12
	14 GA		774.06.14
	16 GA		774.06.16
	18 GA		774.06.18
	20 GA		774.06.20
	22 GA		774.06.22
	14 GA	1000 FT	774.0614.1000
Brown	16 GA	1000 FT	774.0616.1000
	10 GA		774.07.10
	12 GA		774.07.12
	14 GA		774.07.14
	16 GA		774.07.16
	18 GA		774.07.18
	22 GA		774.07.22
	14 GA	1000 FT	774.0714.1000
Orange	16 GA	100 FT	774.0716.1000
	14 GA		774.08.14
	16 GA		774.08.16
	18 GA		774.08.18
	20 GA		774.08.20
	22 GA		774.08.22
Pink	16 GA	100 FT	774.0816.1000
	14 GA		774.10.14
	18 GA		774.10.18

AUTOMOTIVE WIRE



Plastic reel

	100m/roll	100m/roll	100m/roll	50m/roll	50m/roll
Nom. cross-section mm²	0.5 (20GA)	0.75 (18GA)	1.5 (15GA)	2.5 (13GA)	4.0 (11GA)
External dia. approx. mm	1.50	1.80	2.30	2.90	3.50
Colour	Art. No.	Art. No.	Art. No.	Art. No.	Art. No.
Black	770.050	770.075	770.100	770.105	770.110
Red	770.0501	770.0751	770.101	770.106	770.1100
Blue	770.0502	-	-	-	-
Yellow	770.0503	770.0753	-	770.108	-
Green	770.0504	-	-	-	-
Grey	770.0505	-	-	-	-
White	770.05042	-	770.1042	770.1092	-
Brown	770.0509	770.0759	-	-	-

- European gauges from 20GA - 9GA
- High quality plastic PVC coating to protect and ensure long lasting performance
- Single conductor
- Available in black, red, yellow, white, brown, green, purple, blue, grey, black, red
- Temperature Range: -40 °C to +85 °C (-40 °F to +185 °F)
- Silicone, cadmium, lead free
- Less inclined to coil up

Bundles

Nom. cross-section mm²	External dia. approx. mm	Colour	Art. No.
6.0 (9GA)	4.7	Black	770.111

Temperature range:
-40°C to +70°C

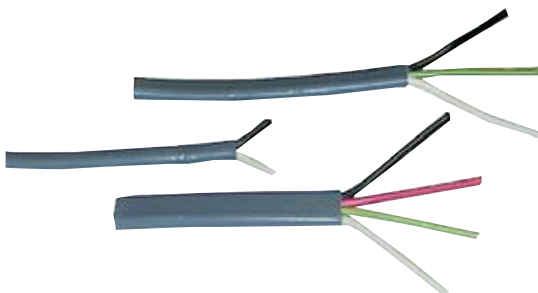
MULTI-STRAND WIRE



Outer-casing NYMHY

Gauge	Colour	No. of Strands	Dia (mm)	Roll Length (m)	Art. No.
15	Black, white, brown, yellow, green, red, blue	7	9.5	50	770.118
	Black, white, brown, yellow	4	7.3		770.119

FLAT PARALLEL WIRE



- For auto, truck, agriculture, construction and light marine applications
- Also known as Brake Cable
- Temperature rated 221° F (105° C)
- Use at 50 volts or less
- Heavy duty flat PVC grey outer jacket is abrasion resistant and protects against moisture, oil, acid and salt
- Meets SAE J1128, Type GPT specifications
- Used for cross body wiring of lights on tractor and utility trailers
- Fine stranded copper conductor for maximum conductivity and flexibility

No. of Conductors	Size	Conductor Colour Sequence	Art. No.
2 x 12GA	100 ft.	Black & White	772.7212
2 x 14GA	100 ft.	Black & White	772.7214
3 x 14GA		Black, Green, & White	772.7314
4 x 14GA		Black, Green, Red, & White	772.7414
2 x 16GA		Black & White	772.7216

CRIMPING TOOLS



Application: Forklift trucks and high lifts, battery back-up systems, uninterruptible power supply systems, industrial and commercial applications.

Art. No. 557.94285

Heavy Duty Crimping Tool Ratchet

- 26" overall length, for sizes 8 GA to 6/0
- Insulated grips for comfort and safety
- Rotate dies to proper gauge setting, no need to remove any parts
- Colour-coded crimp dies match connectors and cable
- Provided with a release pawl
- The ratchet mechanism is designed to ensure the best possible crimped connection
- The ratchet mechanism requires the operator to complete the full crimp before it will release
- Factory lubricated with low-friction, high-temperature synthetic lubricant
- Suitable for use with Power Lugs 557 Series



Art. No. 557.942851

Replacement Jaws

Replacement Jaws for **Art. No. 557.94285**
Colour coded

CRIMPING TOOLS



Art. No. 557.10

Wire End Ferrule Crimping Tool

- For insulated and non-insulated cable connectors
- Drop-forged
- Long life
- With plastic handle
- Non-slip, with high power transmission
- Cross-sec.: 0.5 - 16 mm²
- Length: 220 mm
- Suitable for use with Insulated Solderless Connectors 553.9702 - 553.9707



Art. No. 557.94840

Hammer Type Crimping Tool

- Designed to prevent over crimping
- Spring loaded pin locks in "up" position for loading connector and cable
- When released pin holds connector securely during crimping
- Engineered to crimp electrical terminals on stranded copper cable
- Suitable for all wire sizes from 16 GA to 4/0

OPEN BARREL TERMINAL CRIMPING TOOL



Art. No. 557.16004

- For O.E.M. terminals and weather pack.
- Duplicates factory crimps on open barrel terminals used in automotive, computer and control applications.
- Features five machined and hardened crimp stations for 14 to 24 GA wire terminations.
- Parallel jaws eliminate faulty crimps.
- Overall length: 8 1/2"

CRIMPING TOOLS



Uninsulated/Insulated Crimping Tool Q60 Plus

Art. No. 714.101111

- Crimping of insulated and uninsulated cable connectors 0.5-1.0/1.5-2.5/4-6 mm²
- Cutting and insulation stripping of cables and leads from 0.75 to 6.0 mm
- Will cut machine screws from M2.6-M5
- Length: 220 mm, Weight: 310 g
- Pack Quantity: 1



Insulated Crimping Tool Qi 60

Art. No. 558.11

- Crimping of insulated cable connectors 0.5-1.0/1.5-2.5/4-6 mm²
- Cutting and insulation stripping of cables and leads from 0.75 to 6.0 mm
- Will cut machine screws from M2.6-M5
- Length: 200 mm, Weight: 260 g
- Pack Quantity: 1



Uninsulated Crimping Tool Qu 60

Art. No. 714.101121

- Crimping of uninsulated cable connectors
- 0.5-1.0/1.5-2.5/4-6 mm²
- Cutting and insulation stripping of cables and leads from 0.75 to 6.0 mm
- Will cut machine screws from M2.6-M5
- Length: 200 mm, Weight: 260 g
- Pack Quantity: 1



Ratchet Style Insulated Crimping Tool

Art. No. 558.1100

- Crimping of insulated cable connectors 0.5-1.0/1.5-2.5/4-6 mm
- Cable sizes from 22 to 10 GA
- Forced lock for correct and complete crimping
- Double and oval crimping
- Length: 230 mm, Weight: 550 g
- Pack Quantity: 1

HEAVY DUTY CABLE CUTTING TOOL



Art. No. 557.94014

- Cuts cable up to 250 MCM (6/0) gauge
- 22" handles for easier cutting
- Blades made of 1075 carbon steel, hardened for long life, can be resharpened

CABLE STRIPPER



* The first column reports the AWG number, the second the corresponding diameter of the cable in mm.

Features:

- For stripping all common round cables
- Self-tightening holding lever
- Adjusting screw for cutting depth adjustment
- Turnable blade inside the handle
- Spare blades inside the handle
- Secure grip due to soft component material on handle and holding lever to avoid slipping
- Housing is plastic and impact proof
- Strips cables from 8 to 28 mm wide
- 5" overall length

Description	Art. No	P. Qty
Cable Stripper	714.4100	1
Replacement Blade	714.41010 Special Order Only	

WIRE STRIPPER 0.2MM-6MM



Art. No. 714.109006 - P. Qty. 1

Automatic gauging system, no adjustment to cable cross-section is necessary.

Features:

- Pistol grip / Designed for fatigue-free operation
- Adjustable length stop: 5-15 mm
- Integrated cable cutter: up to 2.5 mm²
- Includes fastening device at the end of the handle

Details/Applications:

- For sheath stripping PVC-insulated single-core cables

Note:

- Not suitable for working on or in the vicinity of live parts



Description of 714.109006	
Type Designation	AS 61
Blade Geometry	V-shaped
Wire Cross Section min/max	0.2-6.0 mm ²
American Wire Gauge min/max	24-10 GA
Length x Width x Height	165 x 27 x 140 mm
Material	Plastic/metal

CABLE TIES WITH METAL AND PLASTIC TONGUE



Natural nylon 6/6

General purpose nylon is high in strength and lightweight. It is non-toxic and offers a wide temperature range. Nylon 6/6 is a hydroscopic material, which absorbs and releases moisture. This can affect the characteristics of a cable tie.

UV stabilized nylon 6/6

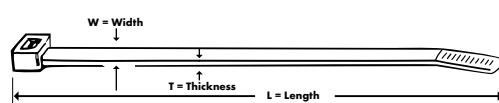
Ultraviolet nylon offers the same features of the natural nylon but also protects against UV light. It contains well-dispersed carbon black for maximum resistance to weathering. This material is designed for outdoor applications.

- UL listed & meets applicable Mil. Spec.
- Temperature range: -40°C to +85°C (-40°F to +185°F).
- Black ties are UV stabilized for long life.
- 6/6 nylon provides superior strength.
- Easy insertion of the cable tie into the eye due to the raised tip.

- Absolutely secure lock.
- Long service life.
- Particularly tough in cold weather, does not become brittle or porous at low temperatures.
- Resistant to oils, grease, fuels and many other organic materials.
- Caution in case of strongly mineral acids and/or oxidizing chemicals, especially at high temperatures.
- Neutral: for indoor use.
- Black: UV and weather stabilized.
- Due to carbon additive the effect of UV radiation on the material is slowed down.

Areas of application:

- Switch cabinets
- Installation
- Automotive
- Automobile workshops
- Industrial workshops
- Elevator construction



PREMIUM CABLE TIES WITH PLASTIC TONGUE



- Plastic tongue.
- No sharp edges.
- High retaining strength.

Width (mm)	Width (in)	Length (mm)	Length (in)	Bundle Ø (mm)	Bundle Ø (in)	Strength (kg)	Strength (lb)	Art. No. Natural	Art. No. UV black	P. Qty.
2.5	0.10	102	4.0	22	7/8	8.2	18	553.5500P		100
3.3	0.13	142	5.6	32	1-1/4	13.6	30		553.55010P	
4.7	0.19	191	7.5	44	1-3/4	22.7	50		553.55030P	
4.7	0.19	282	11.1	76	3	22.7	50	553.5504P	553.55040P	
7.6	0.30	363	14.3	102	4	54.4	120		553.59001P	50
7.6	0.30	282	11.1	76	3	54.4	120		553.59002	
8.8	0.35	914	36	270	10.7	79.3	175	553.5901	553.59010	

CABLE TIES WITH METAL TONGUE



Width (mm)	Width (in)	Length (mm)	Length (in)	Bundle Ø (mm)	Bundle Ø (in)	Strength (kg)	Strength (lb)	Art. No. Natural	Art. No. UV black	P. Qty.
2.5	0.10	102	4	15.9	0.63	8.2	18	553.5500M	553.55001M	100
3.6	0.14	140	5.5	28.6	1.13	18.2	40	553.5501M	553.55010M	
4.7	0.19	191	7.5	44.5	1.75	22.7	50	553.5503M	553.55030M	
4.7	0.19	292	11.5	76.2	3.00	22.7	50	553.5504M	553.55040M	
4.7	0.19	356	14	101.6	4.00	22.7	50	553.5505M	553.55050M	
6.9	0.27	356	14	88.9	3.50	54.4	120	553.5900M	553.59001M	50
6.9	0.27	699	27.5	228.6	9.00	54.4	120		553.59010M	

PUSH MOUNT CABLE TIE



Width (mm)	Width (in)	Length (mm)	Length (in)	Bundle Ø (mm)	Bundle Ø (in)	Strength (kg)	Strength (lb)	Colour	Art. No.	P. Qty.
4.7	0.19	193	7.5	44	1.75	22.7	50	Natural	553.5700	100
								Black	553.57001	100

PLASTIC PANEL CABLE TIES



Width (mm)	Width (in)	Length (mm)	Length (in)	Bundle Ø (mm)	Bundle Ø (in)	Strength (kg)	Strength (lb)	Art. No. black	P. Qty.
5.7	0.23	319	12.5	76.2	3.00	29.5	65	553.51000	50

MOUNTING HEAD TIES



- Material: Nylon

Width (mm)	Width (in)	Length (mm)	Length (in)	Thickness (mm)	Thickness (in)	Bundle Ø (mm)	Bundle Ø (in)	Strength (N)	Strength (lb)	Hole (Ø)	Art. No. (Black)	UL Certification	Qty.
3.6068	0.142	144.75	5.7"	1.27	0.05	1.5748 - 30.48	0.062" - 1.2"	133.45	30	0.16" (4.06 mm) / #8	553.56001	62275 TY 2 & 21	100
4.572	0.18	218.44	8.6"	1.397	0.055	1.5748 - 50.8	0.062" - 2"	222.41	50	0.19" (4.83 mm) / #10	553.56010	62275 TY 2 & 21 & 21S	

CABLE TIES WITH PLASTIC TONGUE



Width (mm)	Width (in)	Length (mm)	Length (in)	Thickness (mm)	Thickness (in)	Bundle Ø (mm)	Bundle Ø (in)	Strength (N)	Strength (lb)	Art. No. Natural	UL Certification	Qty.	Art. No. UV Black	UL Certification	Qty.
2.54	0.1	104.14	4.1	0.889	0.035	19.05	3/4"	80	18	553.5500	62275 TY 2 & 21	100	553.55001	62275 TY 2 & 21	100
3.6	0.142	144.78	5.7	1.524	0.06	31.75	1-1/4"	177.93	40	553.5501	62275 TY 2 & 21		553.55010R	62275 TY 2 & 21	
3.6	0.142	147.32	5.8	1.524	0.06	31.75	1-1/4"	177.93	40				553.55011	62275 TY 2 & 21	1000
4.572	0.18	193.04	7.6	1.3716	0.054	50.8	2"	222.41	50	553.5503	62275 TY 2 & 21 & 21S	100	553.55030	62275 TY 2 & 21 & 21S	100
4.572	0.18	193.04	7.6	1.3716	0.054	50.8	2"	222.41	50	553.55031	62275 TY 2 & 21 & 21S	1000	553.550301	62275 TY 2 & 21 & 21S	1000
4.572	0.18	281.94	11.1	1.3716	0.054	76.2	3"	222.41	50	553.5504	62275 TY 2 & 21 & 21S	100	553.55040	62275 TY 2 & 21 & 21S	100
4.572	0.18	281.94	11.1	1.3716	0.054	76.2	3"	222.41	50				553.55040B	62275 TY 2 & 21 & 21S	1000
4.572	0.18	370.84	14.6	1.3716	0.054	101.6	4"	222.41	50	553.5505	62275 TY 2 & 21 & 21S	100	553.55050	62275 TY 2 & 21 & 21S	100
4.572	0.18	370.84	14.6	1.3716	0.054	101.6	4"	222.41	50				553.55050B	62275 TY 2 & 21 & 21S	1000
4.572	0.18	434.34	17.1	1.3716	0.054	127	5"	222.41	50				553.55060	62275 TY 2 & 21	100
7.5692	0.298	228.6	9	1.7526	0.069	50.8	2"	533.79	120				553.59003	62275 TY 2 & 21	
7.5692	0.298	381	15	1.7526	0.069	101.6	4"	533.79	120	553.5900	62275 TY 2 & 21	100	553.59001	62275 TY 2 & 21	50
7.5692	0.298	381	15	1.7526	0.069	101.6	4"	533.79	120				553.59001B	62275 TY 2 & 21	500

COLD WEATHER CABLE TIES



Enhanced flexibility and strength in extreme cold weather.

- Tested for application performance at -20°C to +85°C (-4°F to +185°F).
- Material: Nylon 6/6 with an impact modifier.
- Material rated at -40°C (-40°F) per ISO 180.
- RoHS compliant.

Width		Length		Thickness		Bundle Ø		Strength		Art. No. Black	UL Certification	P. Qty.
(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(N)	(lb)			
4.572	0.18	193.04	7.6	1.3716	0.054	50.8	2"	222.41	50	553.550300	62275 TY 2 & 21	100
4.572	0.18	281.94	11.1	1.3716	0.054	76.2	3"	222.41	50	553.550311	62275 TY 2 & 21 & 21S	
4.572	0.18	370.84	14.6	1.3716	0.054	101.6	4"	222.41	50	553.550314	62275 TY 2 & 21 & 21S	
15.1892	0.598	381	15	1.7526	0.069	101.6	4"	533.79	120	553.550414	62275 TY 2 & 21	

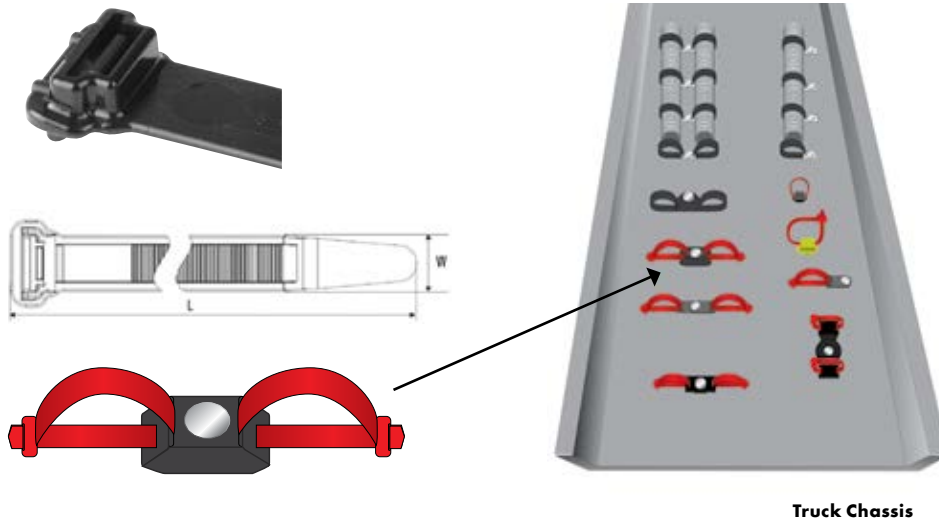
COLOURED CABLE TIES



- Color and fluorescent cable ties provide color coding, identification, packaging continuity, and bundling aesthetics.
- Bright colours can be coordinated to segregate specific items.
- High quality color concentrates produce color consistency time after time.
- The angled tail features finger grips and a stay-tab for easy handling and allows temporary closure.
- The one-piece design, transition rails, and teeth provide a low insertion force while maintaining a high tensile strength.

Width (mm)	Width (in)	Length (mm)	Length (in)	Thickness (mm)	Thickness (in)	Bundle Ø (mm)	Bundle Ø (in)	Strength (N)	Strength (lb)	Colour	Art. No.	UL Certification	Qty.
2.54	0.10	104.14	4.1	0.889	0.035	19.05	3/4	80	18	Fluor. green	553.6100	62275 TY 2 & 21	100
										Fluor. pink	553.6200	62275 TY 2 & 21	
										Fluor. yellow	553.6300	62275 TY 2 & 21	
										Fluor. orange	553.6400	62275 TY 2 & 21	
										Fluor. blue	553.6500	62275 TY 2 & 21	
										Red	553.6600	62275 TY 2 & 21	
										Yellow	553.6700	62275 TY 2 & 21	
										Green	553.6800	62275 TY 2 & 21	
4.572	0.18	193.04	7.6	1.3716	0.054	50.8	2	222.41	50	Fluor. green	553.7100	62275 TY 2 & 21 & 21S	
										Fluor. pink	553.7200	62275 TY 2 & 21 & 21S	
										Fluor. yellow	553.7300	62275 TY 2 & 21 & 21S	
										Fluor. orange	553.7400	62275 TY 2 & 21 & 21S	
										Fluor. blue	553.7500	62275 TY 2 & 21 & 21S	
										Red	553.7600	62275 TY 2 & 21 & 21S	
										Yellow	553.7700	62275 TY 2 & 21 & 21S	
										Green	553.7800	62275 TY 2 & 21 & 21S	
		281.94	11.1	1.3716	0.054	76.2	3	222.41	50	Blue	553.7900	62275 TY 2 & 21 & 21S	
										Fluor. green	553.8100	62275 TY 2 & 21 & 21S	
										Fluor. pink	553.8200	62275 TY 2 & 21 & 21S	
										Fluor. yellow	553.8300	62275 TY 2 & 21 & 21S	
										Fluor. orange	553.8400	62275 TY 2 & 21 & 21S	
										Fluor. blue	553.8500	62275 TY 2 & 21 & 21S	
										Red	553.8600	62275 TY 2 & 21 & 21S	
										Yellow	553.8700	62275 TY 2 & 21 & 21S	
										Green	553.8800	62275 TY 2 & 21 & 21S	
										Blue	553.8900	62275 TY 2 & 21 & 21S	

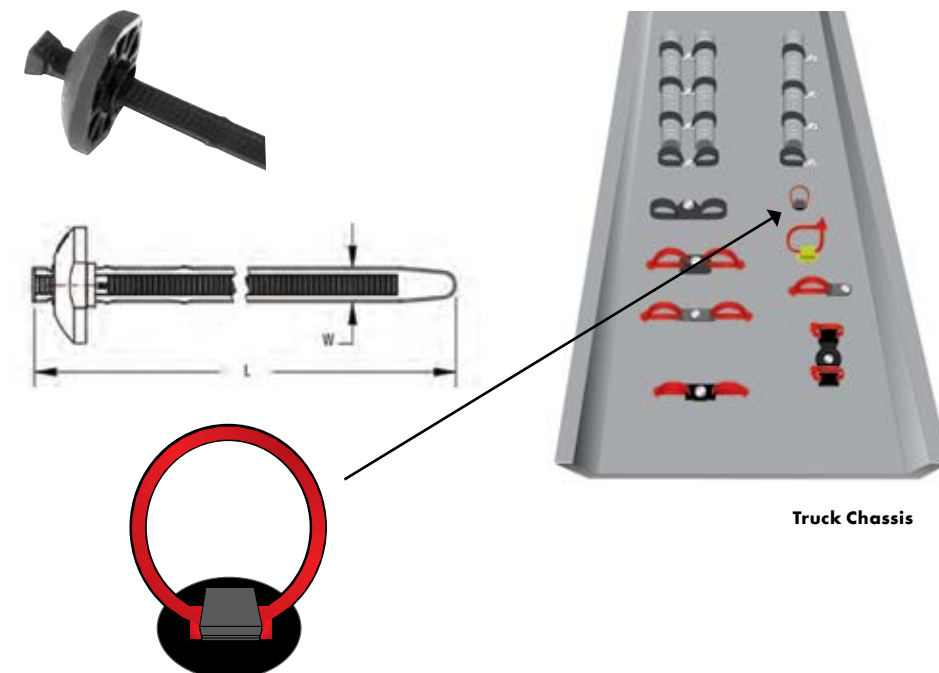
WIDE STRAP HEAVY DUTY CABLE TIES



- Wide strap designed to minimize pinching on soft bundles
- Low profile head provides compact bundling
- Thin strap provides increased flexibility
- Clamping rails on the bottom of head increases grip on round bundles
- Flexible strap
- Bent tip for quick insertion
- Temperature range: -40 °C - +110°C (-40 °F - +230 °F)

Length		Width		Bundle ø		Tensile Strength		Colour	Art. No.	Replaces OEM #	P. Qty.
mm	in	mm	in	mm	in	N	lbs				
231.14	9.1	12.7	.5	57.15	2.25	534	120	Black	553.3100	Freightliner 23-13335-001	25
383.54	15.1			104.78	4.125				553.3105		

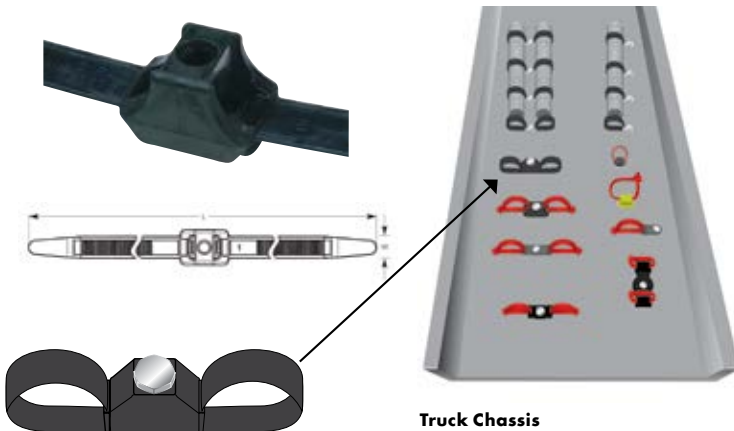
BUTTON HEAD TIES



- Secures bundles to frame rails
- A two-piece tie providing for parallel entry and exit through the head
- Strap has serrations on both sides
- Recessed pawls on strap allow for the strap to be turned clockwise or counter-clockwise before insertion into the head, allowing for bi-directional looping
- Pilot bushing protects the strap from abrasion on the mounting hold edge
- Ribs in the button head for increased strength
- Radiused edges on strap for flexibility
- Serrations and wedge provide optimal strength
- Temperature range: -40 °C - +105 °C (-40 °F - +221 °F)

Length		Width		Bundle ø		Tensile Strength		Colour	Art. No.	P. Qty.
mm	in	mm	in	mm	in	N	lbs			
244.4	9.63	5.5	.22	66.7	2.62	467	105	Black	553.3200	50
381.5	15	7.6	.30	110	4.33	578	130		553.3205	

DUAL CLAMP TIES



- Designed to provide parallel separation between hoses, wires, cables and tubing, protecting them from abrasion
- Mounting hole for securing bundles to a surface
- One-piece design
- Dual head is centered on the strap
- Flexible, wide straps minimizes pinching of hoses and convoluted tubing
- Straps are releasable
- Temperature range: -40 °C - +110 °C (-40 °F - +230 °F)

Length		Width		Bundle ø (each side)		Tensile Strength		Colour	Art. No.	Replaces OEM #	P. Qty.
mm	in	mm	in	mm	in	N	lbs				
331	13	12.7	.50	33.02	1.3	670	150	Black	553.3300	Freightliner - 23-12410-000 International - 3535872C1	50
489	19.2			58.42	2.3				553.3305	Freightliner - TYCDCT110HIR	

DOUBLE HEAD TIES



- Creates two loops that separate two bundles
- Can also be used to secure a bundle to an existing fixing point
- Temperature range: -40 °C - +85 °C (-40 °F - +185 °F)

Length		Width		Tensile Strength		Colour	Art. No.	P. Qty.
mm	in	mm	in	N	lbs			
305	12	4.7	.19	225	50	Black	553.3400	25

CLAMP TIES



- Triangular shaped taps extend beneath the head, allowing for optimal surface contact and complete circumferential compression to 360 degrees
- Recommended for soft rubber hose applications, including fuel, water and air vacuum lines

Black ties:

Temperature range: -40 °C - +105 °C
(-40 °F - +221 °F)

Material: Polyamide 6.6, heat stabilized

White ties:

Temperature range: -40 °C - +85 °C
(-40 °F - +185 °F)

Material: Polyamide 6.6

Length		Width		Bundle ø		Tensile Strength		Colour	Art. No.	P. Qty.
mm	in	mm	in	mm	in	N	lbs			
100	4	2.5	.10	13	.50	90	20	Black	553.4020	100
205	8	4.7	.19	45	1.77	265	60	White	553.4030	
								Black	553.4040	

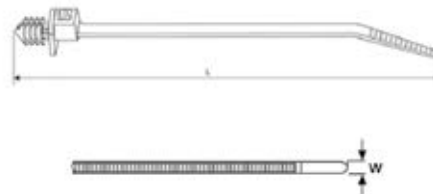
STAINLESS STEEL CABLE TIES



Length		Width		Bundle ø		Tensile Strength		Art. No.	P. Qty.
mm	in	mm	in	mm	in	N	lbs		
201	7.9	4.6	.18	50	2	670	450	553.3500	25
362	14.3			102	4			553.3505	
521	20.5			152	6			553.3510	
201	7.9	7.9	.31	50	2	1115	450	553.3540	
362	14.3			102	4			553.3550	
251	20.5			152	6			553.3560	

- Designed for use where harsh environmental conditions may adversely affect the application
- For use where corrosion, vibration, weathering, radiation and temperature extremes are a concern
- For use in virtually any indoor, outdoor and underground application
- 304 Stainless Steel suits most general purpose requirements
- Self-locking, ball bearing mechanism for quick and easy installation, either by hand or by tensioning tool
- Fully enclosed head does not allow for dirt or grit to interfere with locking mechanism
- High tensile strength for added strength and safety on heavy-duty applications

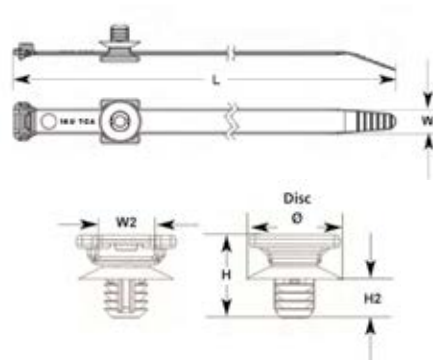
FIR MOUNT AND CABLE TIE ASSEMBLIES



Fir Tree Push Mount Tie

- Fir tree design grips to the inside of a hole
- Mount is on end of clamp
- Can be used on sheet metal, wood, and cast iron
- Temperature range: -40 °C - +105 °C (-40 °F - +221 °F)

Mounting hole ø mm (in)	Panel thickness mm (in)	Length L mm (in)	Width W mm (in)	Min. Tensile Strength N (lbs)	Max. ø bundle mm (in)	Colour	Art. No.	P. Qty.
6.5-6.6 (.25 - .26")	1.32 - 7.0 (.052 - .28")	210 (8.27")	4.7 (.19")	225 (50)	50 (1.97")	Black	553.3700	25

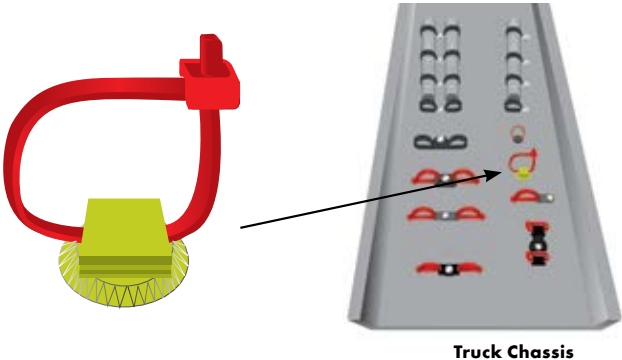


Heavy Duty Fir Tree Mounts

- Designed specifically for 120 - 250 lbs cable ties
 - Optimized for up to 3 to 1 extraction versus insertion force
 - "H" profile provides a broad surface contact to minimize pinching of bundles
 - Will hold bundles from 3/8" - 3"
 - Heavy duty fir free mounts are equipped with a friction tab that will hold the tie in the mount, allowing them to be pre-assembled before installation
- * Panel thickness: 1.0 - 6.5 mm (.04 - .26")
 ** Panel thickness: 1.0 - 15.8 mm (.04 - .62")

Cable Tie		Mount				Min. Tensile Strength N (lbs)	Max. ø Bundle mm (in)	Art. No.	Similar to OEM #	P. Qty
Length L mm (in)	Width W mm (in)	Disc ø mm (in)	Width W2 mm (in)	Height H mm (in)	Height H2 mm (in)					
387.4 (15.25")	7.6 (.30")	21.6 (.85")	13 (.51")	19.1 (.75")	9 (.36")	534 (120)	101.6 (4")	553.3600*		25
				28.4 (1.12")	18.4 (.73")			553.3605**	Freightliner 23-13482-005	25

FIR MOUNT AND CABLE TIE ASSEMBLIES

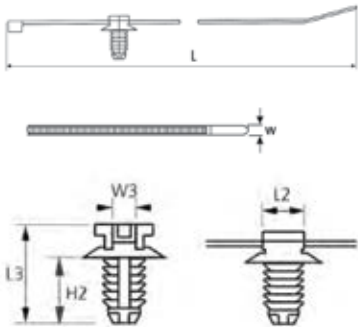


Truck Chassis

Fir Tree Mount

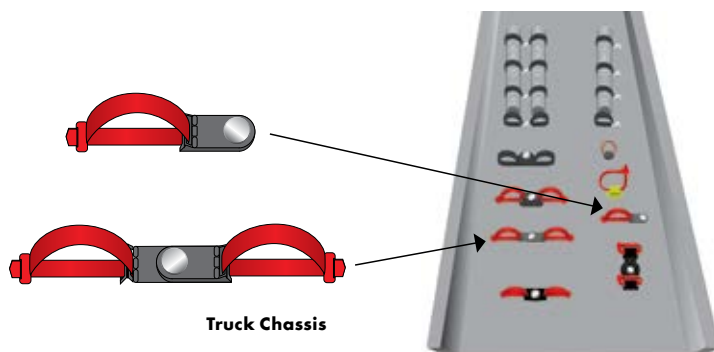
- Mount slides along strap for proper orientation
- Temperature range: -40 °C - +110 °C (-40 °F - +230 °F)
- Mounting hole ø: 6.4 - 7.1 mm (.252" - .28")
- Panel thickness: 0.75 - 3.0 mm (0.028" - .193")
- Designed to require low insertion force but high extraction force
- Mounts are sold as an assembly with the cable tie
- Provides secure grip in a mounting hole
- Protects against dirt

Mounting hole = 6.4mm - 7.1mm

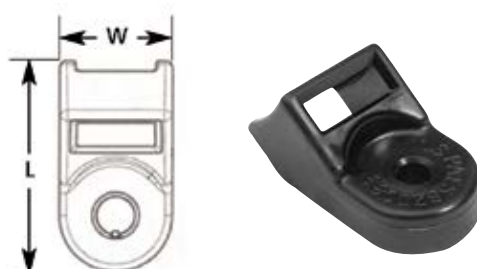


Cable Tie		Mount					Min. Tensile Strength N (lbs)	Max. ø Bundle mm (in)	Art. No.	P. Qty
Length L mm (in)	Width W mm (in)	Disc ø mm (in)	Length L2 mm (in)	Length L3 mm (in)	Width W3 mm (in)	Height H2 mm (in)				
203.2 (8")	4.6 (.18")	16.0 (.63")	11.6 (.46")	13.8 (.54")	5 (.20")	7.5 (.295")	225 (50)	44.5 (1.75")	553.3705	25

HEAVY DUTY CABLE TIE MOUNTS



- When used with a cable tie, eliminates the need to carry multiple sizes of fixed bundle diameter clamps
- Allows for easy servicing while in the field, simply remove and replace the cable tie
- Accepts all standard cable ties up to 12.7 mm/0.5" wide
- Temperature range: -40 °C - +110 °C (-40 °F - +230 °F)



Standard Torque Cable Tie Mounts

- Contains a small tab inside the mounting hole to temporarily engage the threads
- Allows you to pre-install the mount on a stud before securing with a washer and a nut

Mounting Hole \varnothing		Max Torque	Max. \varnothing for Washer/ Socket		Length L		Width W		Colour	Art. No.	P. Qty.
mm	in	lb - ft	mm	in	mm	in	mm	in			
4.8	.1875	9.6 lb - ft	18.5	.73	36.32	1.43	19.3	.76	Black	553.3920	25
6.4	.25									553.3925	
8	.3125									553.3930	



Medium Torque Cable Tie Mount

- Arched "H" profile of saddle surface allows for broad surface contact with the bundle, minimizing pinching and crushing of bundles
- Adjusts to a wide variety of bundle diameters

Mounting Hole \varnothing		Max Torque	Max. \varnothing for Washer/ Socket		Length L		Width W		Colour	Art. No.	P. Qty.
mm	in	lb - ft	mm	in	mm	in	mm	in			
9.5	.375	40 lb - ft	23	.90	46	1.8	24	.96	Black	553.3900	25

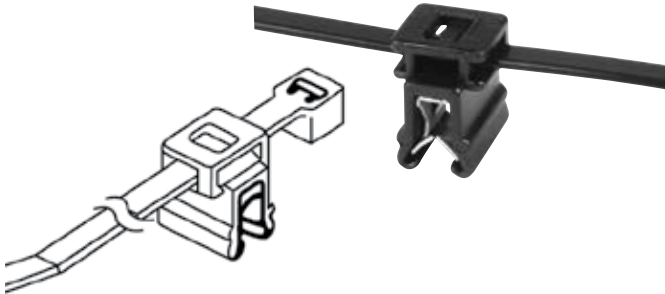


High-Torque Cable Tie Mount

- Designed for use with power-assisted impact wrenches
- Moulded with metal bushing to withstand forces required to tighten a grade 8 bolt
- Arched "H" profile of saddle surface allows for broad surface contact with the bundle, minimizing pinching and crushing of bundles
- Adjusts to a wide variety of bundle diameters

Mounting Hole \varnothing		Max Torque	Max. \varnothing for Washer/ Socket		Length L		Width W		Colour	Art. No.	P. Qty.
mm	in	lb - ft	mm	in	mm	in	mm	in			
9.5	.375	114 lb - ft	32	1.26	47	1.85	25	.99	Black	553.3905	25

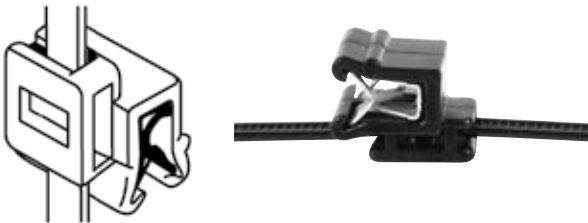
CABLE TIES WITH EDGE CLIP MOUNTS



Two-Piece Edge Clip and Cable Tie

- Panel thickness: 1 - 3 mm (.039 - .117")
- Temperature range: -40 °C - +105 °C (-40 °F - +221 °F)
- Outside strap serrations to reduce bundle chafing
- Clip is perpendicular to tie
- Tie is mounted on top of clip
- Designed to route bundles by securing them to the edge of a plastic or metal sheet without the need for a mounting hole
- Easy to secure
- Requires high extraction force due to the integrated metal clamp that holds the edge clip in place
- Cable tie temperature range: -40 °C - +105 °C (-40 °F - +221 °F)
- Edge clip temperature range: -40 °C - +110 °C (-40 °F - +230 °F)

Length		ø Bundle		Tensile Strength		Colour	Art. No.	P. Qty.
mm	in.	mm	in.	N	lbs.			
200	7.9	45	1.8	225	50	Black	553.3805	25



Two-Piece Edge Clip and Cable Tie

- With inside serrations on strap
- Clip is perpendicular to tie
- Tie is mounted on side of clip

Length		ø Bundle		Tensile Strength		Colour	Art. No.	P. Qty.
mm	in.	mm	in.	N	lbs.			
200	7.9	45	1.8	225	50	Black	553.3800	25

DUAL SWIVEL SADDLE SPACER FOR LARGE BUNDLES



- Saddle spacers are installed between two bundles to separate them and prevent chafing and wear
- Mounts are easily rotated by hand, allowing bundles to be crossed at any angle

Dual Swivel Saddle Spacer for large bundles

- Accommodates cable ties up to 1/2" wide
- Accepts bundle diameters from .625 to 6"
- 23.6 mm (.93") separation between bundles
- Temperature range: -40 °C - +105 °C (-40 °F - 221 °F)

Length L mm (in)	Width W mm (in)	Height H mm (in)	Bundle ø	Minimum Extraction Strength	Colour	Art. No.	Replaces OEM #	P. Qty.
40.6 (1.6")	25.4 (1.0")	23.6 (.93")	15.8 - 152.4 (.625 - 6")	1112 N 250 lbs	Black	553.3855	Freightliner - 23-12886-000 International Truck - 3554554C1	25
23.6 (0.93")	20.3 (0.80")	18 (.70")	6-76 (.25 - 3")	445 N 100 lbs		553.3850		

CABLE TIE HOLDER



From left to right:

Compartment 1: 7 cm x 8 cm (2 3/4" x 3 1/8")

Compartment 2: 10 cm x 16 cm (4" x 6 1/4")

Compartment 3: 13 cm x 27 cm
(5 1/8" x 10 5/8")

Compartment 4: 15 cm x 32.5 cm
(5 7/8" x 12 3/4")

Art. No. 502.05020

Contents (84 Pieces):

Assortment of Prefix 721 bulbs

- Suitable for wall mounting or ORSY cabinet
- Stock levels at-a-glance
- Easy retrieval
- Mounting hardware included
- Use with wire ties, Prefix 553
- Dimensions: 45 cm x 32.5 cm x 5 cm
(16 1/2" x 12 3/4" x 2" deep)

Note: It is recommended to store the wire ties in their original bags to prevent them from becoming brittle

ASSORTMENTS



Art. No. 965.55300

Heavy Duty Cable Tie & Accessory Assortment

Contents (125 Pieces):

5 types of Prefix 553 cable ties



Art. No. 965.553

Black Wire Tie Assortment

Contents (500 Pieces):

8 sizes of wire ties size range: 4" to 15"



Art. No. 965.553550

Cargo Cable Tie Assortment

Contents (550 Pieces):

6 sizes of cable ties size range: 4" to 15"



Art. No. 965.553600

8" Colour Cable Tie Assortment

Contents (600 Pieces):

6 colours of 8" cable ties



Art. No. 965.553601

11" Colour Cable Tie Assortment

Contents (600 Pieces):

6 colours of 11" cable ties

CABLE TIE MOUNTS



Cable Tie Width (mm)	Plate Size (L x W)	Art. No.	P. Qty
2.5	25 x 25	502.625	50
3.6	19 x 19	502.636	
4.8	28 x 28	502.648	
6.5	25 x 25	502.665	

For securing cable ties to flat surfaces

- Self-adhesive
- Adheres to paint, plastic, wood, plaster, synthetic material, paper, etc.
- Surface must be dust, water and grease-free for adhesion
- Made of polyamide 6.6
- Temperature range from +5 °C to +50 °C (+41 °F to +122 °F)

WIRE LOOM CLIP



Diameter (inches)	Art. No.	P. Qty
1/4	543.14	50
3/8	543.38	
1/2	543.12	
3/4	543.34	
1	543.1	

Durable nylon plastic (natural colour)

WIRE LOOM ROUTING CLIP



Type	For conduit size		GM No.	Art. No.	P. Qty
	I. D.	O. D.			
	11/32"	1/2"	8911473	773.14544	50
	13/32"	19/32"	8911497	773.14545	
1	1/2"	11/16"	8911472	773.14546	25
1	3/4"	1"	3816659	773.14547	

Durable black nylon

ROUTING CLIP



A quick, economical method of fastening wires, tubes, hoses, or rods from 1/4" to 1" diameter to metal, plastic or any other surface ranging from 1/32" to 1/8" thickness. Clips are molded of durable, black nylon plastic. They snap into 1/4" diameter holes and are held firmly in place by flexible "snubber tips" which compensate for variation in wall thickness.

Tube/ Hose/ Wire Outside Diameter	Clip Overall Height	Clip Height Above Panel	Art. No.	P. Qty
1/2"	1-1/16	5/8"	773.14531	50
3/4"	1-5/16	7/8"	773.14533	

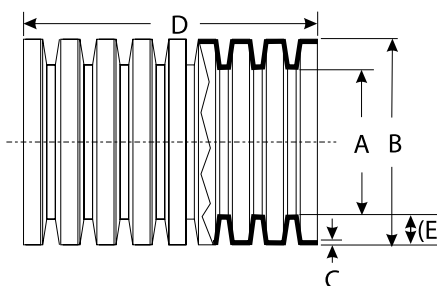
ENGINE COMPARTMENT WIRE CLIPS



Art. No. 773.12729 - P. Qty 25

For 1/4" diameter tube - 1/4" hole

SPLIT WIRE LOOM



- Split wire loom is constructed of heavy duty polyethylene which is resistant to various elements including oil, gas, etc. and temperatures up to 93 °C (200 °F)
- Full length slit accommodates quick and effortless wire insertion

Nominal ID Diameter	Art. No.	Dimension "A" ID		Dimension "B" OD		Dim. "C" Wall Min	Dim (E) Corr Ht. Ref.
		Min.	Max.	Min.	Max.		
1/4"	773.14	0.237	0.266	0.372	0.400	0.004	0.067
3/8"	773.38	0.341	0.980	0.496	0.526	0.005	0.075
1/2"	773.12	0.473	0.516	0.664	0.700	0.005	0.094
5/8"	773.58	0.603	0.639	0.802	0.837	0.005	0.099
3/4"	773.34	0.707	0.759	0.950	0.989	0.005	0.118
1"	773.1	1.020	1.069	1.251	1.304	0.006	0.117
1 1/2"	773.112	1.566	1.647	1.867	1.947	0.006	0.150

JUMBO SPIRAL WRAP



- U.V. resistant
- Remains flexible to -40 °C (-40 °F)
- Bevelled edges

Inner Dia.	Colour	Art. No.	Qty.
1 1/4"	Black	779.114	66' (20.11 m)
1 1/2"		779.112	

SPIRAL WRAP



Features:

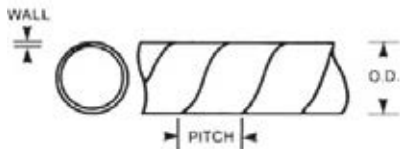
- Allows for flexible protection of cables and hoses
- Bevelled inner edges to prevent damage
- Reusable and resistant to most chemicals

Application:

- Control cabinet doors: protect cable from friction when one end of the cable is fastened within the panel and the other is fastened to the panel door
- Robotics: Protects hoses and wires during movement
- Pneumatic hoses: protects hoses from abrasion while on semi-trucks and other vehicles
- Spark plug wires: lengthens the life of spark plug wires by reducing abrasion to wire insulation

Installation:

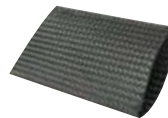
- Gapped insulation, with space between the sheathing, allows wire breakouts and keeps the bundle flexible
- Butted installation, with the sheathing completely insulating the bundle, provides superior abrasion resistance and additional rigidity



Material	Polyethylene (PE)
Flammable	Yes
Temperature Range	-40 C - +100 C -40 F - +212 F
ROHS Conformity	Yes

Inner Diameter		Wall Thickness		Pitch		Min. Ø Bundle Dia.		Max. Ø Bundle Dia.		Colour	Art. No.	P. Qty.
mm	in	mm	in	mm	in	mm	in	mm	in			
6.35	.250"	1.14	.045"	9.53	.375"	4.75	.1875"	50.8	2"	Black	779.14	100' (30.48 m)
9.53	.375"	1.32	.052"	11.13	.438"	7.92	.3125"	76.2	3"		779.38	
12.7	.5"	1.57	.062"	12.7	.5"	9.52	.375"	102	4"		779.12	
19.05	.750"	1.65	.065"	19.05	.750"	19.10	.750"	127	5"		779.34	
25.4	1"	2.41	.095"	25.4	1"	25.4	1"	178	7"		779.1	

BRAIDED CABLE SLEEVES



- No fraying!
- Can be cut cold - no special tool required!
- A specially applied surface coating prevents undesirable fraying of cut ends
- Excellent protection against abrasion and rodents
- Excellent resistance to chemicals
- High quality braided cable sleeve for protection or bundling of cables, pipes, wires and hoses in cable fabrication in the automotive and electrical industry and in switch and system construction

Application:

Cargo:

- Heat protection of components (brake lines, etc.)
- Bundling of cable
- Chemical protection

Metal & Industrial:

- Abrasion protection of cables, components, etc.
- Chemical protection
- Cable protection

Installation/Electrical:

- Connector protection, transitions
- Heat protection of components
- Connection of satellite and video equipment
- Transition from corrugated conduit to cable
- Optical bundling

Technical Data	
Colour	Black
Material	Polyamide 6.6
	<ul style="list-style-type: none"> • Free of halogens • Free of cadmium • Free of phosphor
Temperature Range	-55 °C to +125 °C (-67 °F to +257 °F)
Flammability	Self extinguishing according to UL94, DIN 75200, FMVSS 302 and DIN 5510

Nominal width in mm	Bundle dia. in mm	Art. No.	Qty. / m
6	4.0 - 10.0	771.500030	20
12	10.0 - 14.0	771.490012	15
16	14.0 - 24.0	771.480016	15
30	26.0 - 34.0	771.460030	10

SHRINK BRAIDED SLEEVE



- A heat shrinkable braided hose made of extremely abrasion resistant fibre
- Very good shrinking behaviour
- No seam movement while shrinking
- Offers excellent protection

Application:

Cargo:

- Heat protection of components (brake lines, etc.)
- Bundling of cable
- Chemical protection

Metal & Industrial:

- Abrasion protection of cables, components, etc.
- Extremely heat resistant (150 °C / 302 °F)
- Chemical protection
- Cable protection

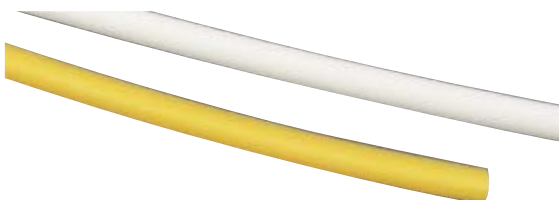
Installation/Electrical:

- Connector protection, transitions
- Heat protection of components
- Connection of satellite and video equipment
- Transition from corrugated conduit to cable

Technical Data	
Colour	Black
Material	Polyester PET
	<ul style="list-style-type: none"> • Free of halogens • Free of cadmium • Free of phosphor
Temperature Range	-40 °C to +150 °C (-40 °F to 302 °F)
Shrink Ratio	2:1
Flammability	Self extinguishing according to HB UL94

Application range (mm)	Width after shrinking (mm)	Art. No.	Qty. / m
6-12	6	771.550012	5
12.5-25	12	771.560025	
15-30	15	771.570030	

COLOURED HEAT SHRINK TUBE



- Protects against oil, fuel, salt, grease, animal acids and other chemicals
- Acts as strain relief between the cable and connector and prevents abrasion
- Ideal for general purpose application
- Sealant free single wall construction
- Conforms to DOD Mil-I-23053/6 Class 1 & 2, also meets UL-224 125 °C specs

Expanded Dia.	Shrunk Dia.	Use with	Length	Yellow Art. No.	White Art. No.	P. Qty
1/8"	1/16"	18-14GA	6"	771.871.032	773.873.032	6
3/16"	3/32"	14-10GA		771.871.048	773.873.048	
1/4"	1/8"	12-8GA		771.871.064	773.873.064	
3/8"	3/16"	10-6GA		771.871.095	-	
1/2"	1/4"	8-2GA		-	771.873.127	
3/4"	3/8"	1-2/0GA		-	771.873.190	
1"	1/2"	1/0-4/0GA		771.871.250	771.873.250	

Technical Data	
Material	Polyolefin
Shrink Ratio	2:1
Wall Thickness After Shrinking	1/32"
Water Proof	No
Meltable Sealant	No
UL Approval	Yes # 224
Operating temperature	-55 ° to +135 °C; -67 ° to +275 °F

HEAT SHRINK TUBING



Technical Information	
Tensile strength	2450 psi
Ultimate elongation	475%
Heat aging (adhesive softens)	135 °C (275 °F)
Cold flex	-35 °C (-31 °F)
Dielectric strength (outer wall)	500 V/mil
Dielectric withstand	1000 Volts AC
Current leakage	< 0.250 microamps

With high flow adhesive

- Adhesive lined.
- Semi-rigid polyolefin.
- 4:1 shrink ratio (tubing will shrink to 25% of its original size; final wall thickness is dependent on the amount of shrinkage).
- Provides excellent strain relief.
- Puncture resistant.
- Resistant to salt water, automotive fluids and corrosive chemicals
- Not affected by severe vibration, extreme temperature changes, moisture or automotive fluids.
- The clear lining is excellent

for applications that require inspection of the contained component.

Application:

- Ideal for applications requiring moisture sealing, mechanical protection and strain relief.
- Adhesive lining is compatible with typical wire insulation.
- Excellent for: RV, truck, trailer, tractor, heavy machinery, marine wire splices, inline components, fusible links and terminals.

Size	Minimum expanded I.D.	Maximum recovered I.D.	Nominal recovered melt wall	Minimum recovered outer wall	Colour Code	Length	Art. No.	P. Qty.
3/16"	0.220"	0.045"	0.030"	0.027"	White	6"	619.5406	10
1/4"	0.300"	0.060"	0.033"	0.028"	Red		619.5416	
5/16"	0.350"	0.080"	0.038"	0.033"	Blue		619.5426	
11/16"	0.450"	0.105"	0.043"	0.053"	Yellow		619.5436	

HEAT SHRINK TUBING



- Netted radially, polyolefin base
- Insulation material: Class A
- Provides electrical insulation and corrosion protection
- Resistant against solvents and chemicals
- Does not melt
- No internal glue

Int. Diameter (In)	Shrunk Diameter (mm)	Int. Diameter (mm)	Wall Thickness (mm)	Length	Art. No.
3/32	2.4	1.2	0.51	8 Feet (comes in a bag)	771.0024
1/8	3.2	1.6			771.0032
3/16	4.8	2.4			771.0048
1/4	6.4	3.2	0.64		771.0064
3/8	9.5	4.8			771.0095
1/2	12.7	6.4			771.0127
3/32	2.4	1.2	0.51	10 Meters (comes in a box)	771.024
1/8	3.2	1.6			771.032
3/16	4.8	2.4			771.048
1/4	6.4	3.2	0.64		771.064
3/8	9.5	4.8			771.095
1/2	12.7	6.4	0.69	5 Meters (comes in a box)	771.127
3/4	19.0	9.6	0.76		771.190
1	25.4	12.7	0.89		771.254

DUAL WALL HEAT SHRINK TUBING



- Adhesive-lined flexible polyolefin
- Meets UL/CSA specifications
- Meets military specifications
- Flame retardant
- Internal layer of special thermoplastic adhesive
- Rated for operation from -55 °C to +110 °C (-67 °F to 230 °F)

Applications:

- Electronic components/wiring
- Wire splices: automotive, truck and marine
- Wire bundles
- Used on braided-shield pigtails

Shrink Ratio: Tubing has a 3:1 shrink ratio (Black is 2.5:1). When fully recovered, the tubing will shrink to 33 % of its original diameter. The recovered wall thickness of the tubing is proportional to the degree of recovery.

Size (In)	Description	Expanded Diameter	Shrunk Diameter	Use With Gauge	Art. No.
1/8"X6"	Black	1/8"	3/64"	24-18 Ga.	775.018
3/16"X6"		3/16"	1/16"	20-12 Ga.	775.0316
1/4"X6"		1/4"	3/32"	18-10 Ga.	775.014
3/8"X6"		3/8"	1/8"	8-6 Ga.	775.038
5/16"X6"		5/16"	3/16"		775.0516
1/2"X6"		1/2"	3/16"	6-2 Ga.	775.012
3/4"X6"		3/4"	1/4"	4-2/0 Ga.	775.034
1"X6"		1"	3/8"	2-4/0 Ga.	775.01
1/8"X6"	Red	1/8"	3/64"	24-18 Ga.	776.018
3/16"X6"		3/16"	1/16"	20-12 Ga.	776.0316
1/4"X6"		1/4"	3/32"	18-10 Ga.	776.014
3/8"X6"		3/8"	1/8"	8-6 Ga.	776.038
5/16"X6"		5/16"	3/16"		776.0516
1/2"X6"		1/2"	3/16"	6-2 Ga.	776.012
3/4"X6"		3/4"	1/4"	4-2/0 Ga.	776.034
1"X6"		1"	3/8"	2-4/0 Ga.	776.01
1/8"X6"	Clear	1/8"	3/64"	24-18 Ga.	777.018
3/16"X6"		3/16"	1/16"	20-12 Ga.	777.0316
1/4"X6"		1/4"	3/32"	18-10 Ga.	777.014
3/8"X6"		3/8"	1/8"	8-6 Ga.	777.038
1/2"X6"		1/2"	3/16"	6-2 Ga.	777.012
3/4"X6"		3/4"	1/4"	4-2/0 Ga.	777.034
1"X6"		1"	3/8"	2-4/0 Ga.	777.01
1/8"X6"	Rigid	1/8"	3/64"	24-18 Ga.	778.018
3/16"X6"		3/16"	1/16"	20-12 Ga.	778.0316
1/4"X6"		1/4"	3/32"	18-10 Ga.	778.014
3/8"X6"		3/8"	1/8"	8-6 Ga.	778.038
1/2"X6"		1/2"	3/16"	6-2 Ga.	778.012
3/4"X6"		3/4"	1/4"	4-2/0 Ga.	778.034
1"X6"		1"	3/8"	2-4/0 Ga.	778.01

HEAT GUN FOR HEAT SHRINK CONNECTORS



Art. No. 555.1

- Suitable for heat shrink tubing, spot heating, laboratories, etc., as an instant heat source
- Built-in safety lock with improved easy to use self-ignition system
- Flame temperature up to approximately 1,300 °C (2,400 °F)
- Wind-proof flame and water-resistant ignition
- Compact size, fits into small tool boxes, bag, etc.
- Runs on butane fuel; built-in fuel level viewing window
- Child-resistant ignition system

RUBBER WIRE CONDUIT

Art. No. 771.8



Int. Diameter: 8 mm, Wall Thickness: 0.7 mm

- Protects wire and electrical connections
- PVC non-braided
- Resistant to aging
- Non-flammable
- According to DIN 40 621 and ASTM

ASSORTMENTS



Art. No. 965.7756

Dual Wall Heat Shrink Assortment

Contents (72 Pieces):

6 sizes of dual wall heat shrink tubing
Size range: 1/8" to 1"



Art. No. 964.7710

Shrink Tube Assortment

Contents (130 Pieces):

8 sizes of heat shrink tubing
Size range: 2.4 mm to 25.4 mm

RUBBER GROMMETS

- Material: PVC, Rubber
- Colour: Black
- Resistant to corrosion, weathering, aging, ozone, oil, petrol and solvents



1 Bore Diameter (mm)	2 Groove Width (mm)	3 Outside Diameter (mm)	Art. No.	P. Qty
6	10	14	561.6636	25
8	11	16	561.6638	
10	14	18	561.6640	
12	17	20	561.6642	

1 Bore Diameter (mm)	2 Groove Width (mm)	3 Outside Diameter (mm)	Art. No.	P. Qty
7	8	10	561.110	50
4	9	11	561.6632	100
4	7	9	561.6634	
6	10	13	561.6646	
9	11	16	561.6648	
10	13	18	561.6650	25
12	20	25	561.6652	
13	22	28	561.6662	
16	24	30	561.6663	
21	31	38	561.6665	
12	14	17	561.6679	
21	30	34	561.6681	



1 Bore Diameter (in)	2 Groove Width (in)	3 Outside Diameter (in)	Overall Thickness	Art. No.	P. Qty
3/16	1/16	5/16	1/4	561.4413	25
1/4	1/16	3/8	3/16	561.16454	
1/4	1/16	7/16	3/16	561.4417	
5/16	1/16	7/16	3/16	561.4419	
3/8	1/16	1/2	9/32	561.4423	
3/8	1/16	1 - 1/4	1/4	561.4425	
5/8	1/8	1 - 1/8	3/8	561.4431	
3/4	1/4	1 - 5/8	7/16	561.4436	



Art. No. 964.5616

Rubber Grommet Assortment Contents (555 Pieces):
8 sizes of rubber grommets
Size range: 6 mm to 31 mm



Art. No. 964.56161

Rubber Grommet Assortment Contents (200 Pieces):
12 sizes of rubber grommets
Size range: 6 mm to 31 mm

AUTOMOTIVE FUSES

ATO® Blade Fuses



Colour	Amps	Art. No.	P.Qty
Magenta	3 AMP	731.003	25
Green	4 AMP	731.004	
Orange	5 AMP	731.005	
Brown	7.5 AMP	731.0075	
Red	10 AMP	731.010	
Blue	15 AMP	731.015	
Yellow	20 AMP	731.020	
Clear	25 AMP	731.025	
Teal	30 AMP	731.030	
Pink	40 AMP	731.040	

MINI® Blade Fuses



Colour	Amps	Art. No.	P.Qty
Grey	2 AMP	731.0021	25
Purple	3 AMP	731.0031	
Tan	5 AMP	731.0051	
Brown	7.5 AMP	731.00751	
Red	10 AMP	731.0101	
Blue	15 AMP	731.0151	
Yellow	20 AMP	731.0201	
Clear	25 AMP	731.0251	
Green	30 AMP	731.0301	

MAXI® Blade Fuses



Colour	Amps	Art. No.	P.Qty
Brown	20 AMP	731.1201	5
Green	30 AMP	731.1301	
Yellow	40 AMP	731.1401	
Red	50 AMP	731.1501	
Blue	60 AMP	731.1601	
Clear	80 AMP	731.1801	

Ultra Mini Fusibles - Type ATO



Colour	Amps	Art. No.	P.Qty
Orange	5 AMP	731.2101	25
Brown	7.5 AMP	731.2201	
Red	10 AMP	731.2301	
Blue	15 AMP	731.2401	
Yellow	20 AMP	731.2501	
Clear	25 AMP	731.2601	
Green	30 AMP	731.2701	

ATO® MINI Fuse Block Tap For use with MINI fuses

Art. No. 731.17686 - P. Qty 25

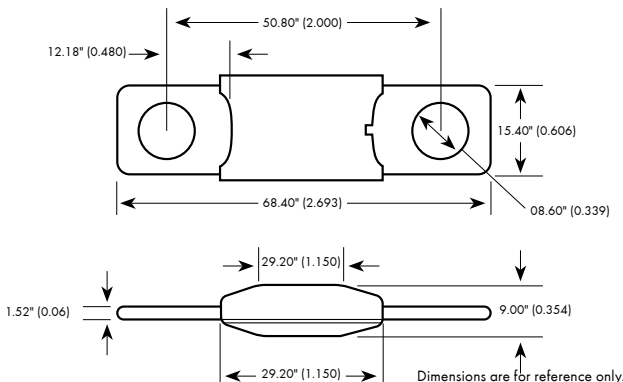


ATO® Fuse Block Tap For use with ATO fuses

Art. No. 731.14474 - P. Qty 25



BOLT-IN FUSES



For high current applications.

- Current Rating: 100-300A
- Voltage Rating: 32VDC
- Interrupt Rating: 1,000A @ 32VDC
- Housing Material: UL-Rated 94V-0 thermoplastic
- Terminal Material: Cooper
- Mounting: M8 or 5/16-18 or less studs on 2.00 in (50.8mm) centres.
- Marking: Colour-coded amperage ratings.

AMP	Art. No.	P. Qty
100	731.31100	5
125	731.31125	
150	731.31150	
175	731.31175	
200	731.31200	
250	731.31250	
300	731.31300	

FLAT PUSH-IN FUSE MICRO 2 SILVER



Silver-plated version for improved heat removal

OEM quality

Max. amperage	Colour	Max. nominal voltage	Min./Max. operating temperature	Surface of contacts	Art. No.	P. Qty.
5 A	Tan	32 V/DC	-40 to 125 °C	Silver-plated	731.31305	10
7.5 A	Brown				731.313075	
10 A	Red				731.31310	
15 A	Blue				731.31315	
20 A	Yellow				731.31320	
25 A	Clear				731.31325	
30 A	Green				731.31330	

FLAT PUSH-IN FUSE MICRO 3 SILVER



Silver-plated version for improved heat removal

OEM quality

Max. amperage	Colour	Max. nominal voltage	Min./Max. operating temperature	Surface of contacts	Art. No.	P. Qty.
5 A	Tan	32 V/DC	-40 to 125 °C	Silver-plated	731.31505	10
7.5 A	Brown				731.315075	
10 A	Red				731.31510	
15 A	Blue				731.31515	



Art. No. 965.7311

Micro 2/3 Fuse Assortment

Contents (110 Pieces):

10 each of all Micro 2 and Micro 3 fuses.

AUTOMOTIVE FUSES

Glass Tube Fuses



Description	Amps	Art. No.	P.Qty
Auto Fuse Sfe	4 AMP	729.704	20
	7.5 AMP	729.7075	
	9 AMP	729.709	
	20 AMP	729.720	
Agc Fuse	30 AMP	729.730	
	2 AMP - 250V	729.902	
	3 AMP	729.903	
	5 AMP	729.905	
	10 AMP	729.910	
	15 AMP	729.915	
	20 AMP	729.920	
	25 AMP	729.925	
	30 AMP	729.930	

Thermoplast Fuses M25



Colour	Amps	Art. No.	P.Qty
Yellow	5AMP	730.25.5	20
White	8AMP	730.25.8	
Red	16AMP	730.25.161	
Blue	25AMP	730.25.25	
Grey	40AMP	730.25.40	

Circuit Breaker 12V



Description	Amps	Art. No.	P.Qty
Circuit Breaker 12V	10 AMP	729.18518	5
	15 AMP	729.18519	
	20 AMP	729.18520	
	30 AMP	729.18521	
	40 AMP	729.18522	

The lower overall height reduction of the Low Profile JCASE fuses allows for more space and weight savings and also allows for a shorter male blade terminal, saving additional weight and material savings in fuse box designs.

Low Profile JCASE fuses



Low Profile JCASE fuses: Technical Data	
Voltage	58 V
Interrupting Rating	1000A @ 58 V
Operating temperature	-40°C to +125°C
Insertion Force	53N Max (12 lb)
Extraction Force	9N Min (2 lb)

Colour	Amps	Art. No.	P. Qty
Blue	20 AMP	730.5020	5
White	25 AMP	730.5025	
Pink	30 AMP	730.5030	
Green	40 AMP	730.5040	
Red	50 AMP	730.5050	
Yellow	60 AMP	730.5060	

PAL FLK-MF FLK-M106 Mini Fuses



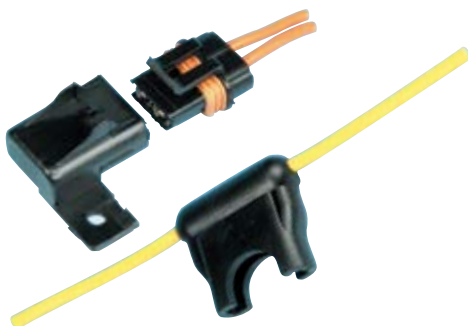
Colour	Amps	Art. No.	P.Qty
Blue	20 AMP	730.2020	5
Pink	30 AMP	730.2030	
Green	40 AMP	730.2040	
Red	50 AMP	730.2050	
Yellow	60 AMP	730.2060	

PAL FLK-F FLK-F101 - F series



Colour	Amps	Art. No.	P.Qty
Pink	30 AMP	730.1030	
Green	40 AMP	730.1040	
Red	50 AMP	730.1050	

ATO IN-LINE FUSE HOLDERS



Art. No. 729.110 - P. Qty 2

- Wire Gauge: 12
- Convenient screw mount

Art. No. 729.111 - P. Qty 2

- Wire Gauge: 16

GLASS FUSE HOLDER



Art. No. 729.0018 - P. Qty 5

- Spring loaded
- Equipped with SFE Fuse Amperage: 20
- Wire Gauge: 14
- Uses 729.9 style fuses from 1 amp to 35 amp

NYLON CRIMP TYPE WATERPROOF IN-LINE FUSE HOLDER



1/4 x 1 1/4", 6.35 x 31.8 mm

Art. No. 729.006 - P. Qty 2

- Ideal for harsh environments such as water, salt spray, ultraviolet light, ozone, -40 °C (-40 °F) temperatures and can withstand many organic solvents and rigorous shock and vibration
- Accepts 12 to 18 GA wire leads
- One piece, highly visible yellow, moulded thermoplastic
- Uses 729.9 style fuses from 1 amp to 35 amp
- ROHS compliant

MAXI BLADE FUSE HOLDER

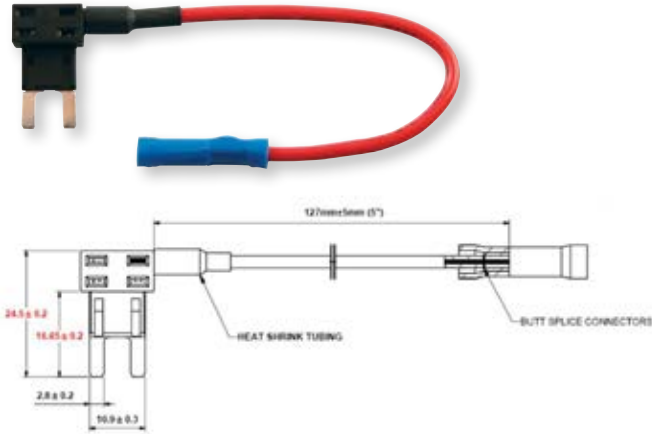


Art. No. 729.11150 - P. Qty 2

- 8 GA fit to 60 Amp
- Water resistant
- Dimensions: 6" (Side); 80mm (L) x 53mm (W)
- Operating temperature: -40°C to +85°C (-40°F to +185°F)

Technical Data	
Rated current	32 V DC
Insulation resistance at 500 V DC	100M Ω min.
Contact resistance	50 m max.
Dielectric strength	1,000V AC, 1 min.
Body material	Red & black thermo-plastics

ADD-A-CIRCUIT FUSE HOLDER



Art. No. 729.1200 - P. Qty 5

Add-A-Circuit MINI® Style

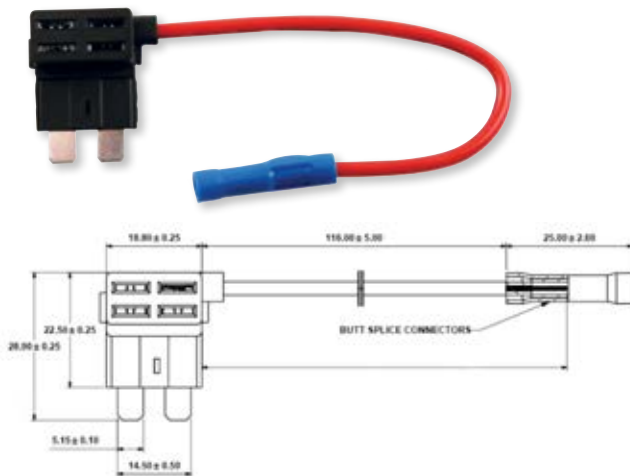
Allows quick and easy installation of additional accessories without the need for splicing

Features:

- Turns one fuse slot into two while providing protection for both circuits
- No cutting of factory wires

Applications:

- Outfitting shops (stereo, alarm, remote start)
- Public work yards



Art. No. 729.1210 - P. Qty 5

Add-A-Circuit ATO® Style

Allows quick and easy installation of additional accessories without the need for splicing

Features:

- Turns one fuse slot into two while providing protection for both circuits
- No cutting of factory wires

Applications:

- Outfitting shops (stereo, alarm, remote start)
- Public work yards

AUTO MINI RELAY BOSCH-STYLE 40AMP 12V



40 AMP Mini relay with mounting bracket and quick-connect terminals is the alarm market's friend. Extremely versatile and conservatively rated for the longest life.

Art. No. 734.12011

Technical Data	
Voltage	12 V
Current	40 A
Enclosure	Standard cover w/ bracket
Suppression	None
Contact material	Hard Silver
Mechanical life	1,000,000 cycles
Operating temperature	-40°C to +100°C
Duty cycle	Continuous

FUEL PUMP RELAY BYPASS MASTER KIT



Art. No. 556.19038

The relay bypass switch plugs in place of the fuel pump relay and provides direct control over the fuel pump circuit. Quickly troubleshoot fuel pump relay circuits.

Relay Bypass Kit features six relay switches which are designed to plug in place of the fuel pump relay and provide direct control over the fuel pump circuit. It can be used to actuate the fuel pump when the engine is not running, allowing the fuel pressure to be read, or is often used to bypass the fuel pump control to empty the contents of the fuel tank. Operating Range: 20 Amp Continuous, 30 Amp Surge (12V)

Features and Benefits:

- Actuates fuel pump when the engine is not running
- Plugs in place of relay
- Can be used in any relay circuit with matching pin layouts.
- Controls fuel pump independent of "key on" systems
- Covers most Domestic, Japanese, Korean, and German applications
- Operating range: 20 Amp continuous, 30 Amp surge (12V)

The master set includes:

Small Spade Relay
2000 and Newer Domestic
Korean and Japanese



Med. Spade Relay
1970-2009
Domestic and Japanese



Large Spade Relay
1970-2009
Volkswagen
1999-2005
Audi 2004-2006



Small Rectangular Relay
1985-2008
GM, Chrysler and
Japanese



Square Relay
BMW 1995-2006



Large Rectangular Relay
1995-2007
GM, Chrysler and Japanese



ASSORTMENTS



Art. No. 964.731

**ATO Fuse Assortment
Contents (160 Pieces):**

8 types of ATO fuses,
Amp. range: 3 to 30 A



Art. No. 965.731

**Blade Type Fuse Assortment
Contents (175 Pieces):**

21 types of ATO, Mini & Maxi blade type fuses
Amp. range: 3 to 60 A



Art. No. 965.731001

**Fuse & Mini Fuse Assortment
Contents (180 Pieces):**

27 types of Micro 2, micro 3, Mini & Ultra Mini fuses

HEAT SHRINK CONNECTORS

Why Use Heat Shrink Terminals?

Over time, wires can corrode which reduces the current carrying capacity of the electrical system. Adverse conditions can cause the wire or wires to pull-out of the connector. Electrical systems are breached when repairs are made with inferior, unsealed electrical connections.

MULTIPLE WIRE CONNECTORS



555.5720



555.5716



555.5714



555.5710

Hydralink Butt Connectors - Join two wires to one.



Features:

- Colour dash on tubing indicates the wire gauge for the connector
- Colour stripes on the connector indicate which crimp die to use
- Tubing has an active adhesive that seals between multiple wires.

Hydralink Connectors					
Wire Gauge	Tubing Colour	Colour stripe on conn.	Crimp Die (insulated)	Art. No.	P. Qty.
24-22 AWG	Clear/White Dashes	Side 1: White Side 2: Red	Yellow (24-22 AWG) Red (20-18 AWG)	555.5720	25
20-18 AWG	Clear/Red Dashes	Side 1: Red Side 2: Blue	Red (20-18 AWG) Blue (16-14 AWG)	555.5716	
16-14 AWG	Clear/Blue Dashes	Side 1: Blue Side 2: Yellow	Blue (16-14 AWG) Yellow (12-10 AWG)	555.5714	
12-10 AWG	Clear/Yellow Dashes	Side 1: Yellow Side 2: Red	Yellow (12-10 AWG) Red (8 AWG)	555.5710	



555.82214



555.81810

Closed-End Connectors - Join two to four wires



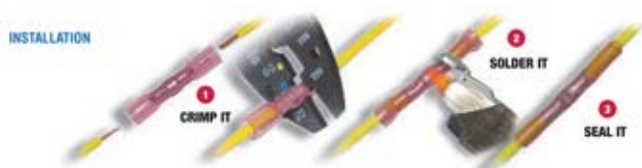
Features:

- Closed end connectors are crimped on end.
- Provides a safe area to avoid corrosion and/or vibration problems.
- Can be used to replace wire nuts.
- Tubing has an active adhesive that seals multiple wires and eliminates wire pull-out.

Closed End Connectors			
Wire Gauge	Tubing Colour	Art. No.	P. Qty.
22-14 AWG	Clear/Blue Dashes	555.82214	25
14-10 AWG	Clear/Yellow Dashes	555.81810	

HEAT SHRINK CONNECTORS

CRIMP & SOLDER CONNECTORS



Sealed crimp & solder connectors are crimped for mechanical reliability, soldered for superior strength and conductivity, and sealed for maximum durability.



Features:

- These connectors are crimped for mechanical reliability, soldered for superior strength and conductivity, and sealed for maximum durability.
- Lead-free solder
 - Reduce exposure in the workplace
 - Tin bismuth alloy is RoHS compliant
- Pre-fluxed solder sleeve provides quality soldered connection
- Low melting point allows for quick installation
- Excellent surface tension keeps solder in place
- Quality colour-coded translucent heat shrink tubing
 - Adhesive lining provides seal against corrosion
 - Wire gauge imprint provides easy identification



8201.9140



8201.9142



8201.9141



8201.9143

Wire Gauge	Colour	Seam Type	Art. No.	P. Qty.
24-22 AWG	Clear	Seamless	8201.9140	25
22-18 AWG	Red	Seamless	8201.9141	
16-14 AWG	Blue	Seamless	8201.9142	
12-10 AWG	Yellow	Seamless	8201.9143	10

CRIMP CONNECTORS



555.5164



555.5162



555.5161



555.5160



555.5165

Features:

- Translucent, adhesive-lined polyolefin tubing allows visual inspection, prevents wire corrosion, and provides a waterproof seal.
- Colour-coded tubing with wire gauge imprint provides easy identification of the correct part for the job.

Wire Gauge	Colour	Seam Type	Art. No.	P. Qty.
24-22 AWG	Clear	Butted	555.5160	50
			555.51601	250
22-18 AWG	Red	Seamless	555.5161	50
			555.51611	250
16-14 AWG	Blue	Seamless	555.5162	50
			555.51621	250
12-10 AWG	Yellow	Seamless	555.5164	50
			555.51641	250
8 AWG	Pink	Brazed	555.5165	25

HEAT SHRINK CONNECTORS

SOLDER CONNECTORS



0555.92071



0555.92072



0555.92073

Wire Gauge	Colour	Art. No.	P. Qty.
22-18 AWG	Red	0555.92071	25
16-14 AWG	Blue	0555.92072	
12-10 AWG	Yellow	0555.92073	

Features:

- These connectors provide an easy-to-use quality sealed solder connection.
- Lead-free solder
 - Reduce exposure in the workplace
 - Tin bismuth alloy is RoHS compliant
 - Pre-fluxed solder sleeve provides quality soldered connection
 - Low melting point allows for faster installation
 - Excellent surface tension keeps solder in place
- Quality colour-coded translucent heat shrink tubing
 - Adhesive lining provides seal against corrosion
 - Wire gauge imprint provides easy identification

CLEAR "WINDOW" BUTT CONNECTORS



555.516115



555.516215



555.516415

Wire Gauge	Colour	Art. No.	P. Qty.
18-22 AWG	Red	555.516115	25
14-16 AWG	Blue	555.516215	
10-12 AWG	Yellow	555.516415	

OptiSeal connectors are designed to provide optimal visual assurance of a sealed crimp termination.

Features:

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

STEP DOWN BUTT CONNECTORS



8201.45101



8201.45102



8201.45103

Wire Gauge	Colour	Art. No.	P. Qty.
22-18 AWG to 16-14 AWG	Blue	8201.45101	20
16-14 AWG to 12-10 AWG	Yellow	8201.45102	10
12-10 AWG to 8 AWG	Pink	8201.45103	

Features:

- Varied inside and outside diameter of the connector allows both ends to make a solid crimp.
- Colour-coded stripes guide you during installation.
- Lead-free solder
 - Reduce exposure in the workplace
 - Tin bismuth alloy is RoHS compliant
 - Pre-fluxed solder sleeve provides quality soldered connection
 - Low melting point allows for faster installation
 - Excellent surface tension keeps solder in place
- Quality colour-coded translucent heat shrink tubing
 - Adhesive lining provides seal against corrosion
 - Wire gauge imprint provides easy identification

HEAT SHRINK CONNECTORS

CRIMP CONNECTORS



Features:

- Translucent, adhesive-lined polyolefin tubing allows visual inspection, prevents wire corrosion, and provides a waterproof seal.
- Conforms to automotive manufacturers' specifications for wiring repairs, necessary for maintaining electrical warranties.
- Colour-coded tubing with wire gauge imprint provides easy identification of the correct part for the job.



Wire Gauge	Colour	Stud Size	Seam Type	Art. No.	P. Qty
22-18 AWG	Red	#8/4mm	Brazed	555.9011	25
22-18 AWG		#10/5mm		555.9021	
22-18 AWG		1/4"/6mm		555.9031	10
22-18 AWG		5/16"/8mm		555.9041	
22-18 AWG		3/18"/10mm		555.90411	25
16-14 AWG	Blue	#8/4mm		555.9090	
16-14 AWG		#10/5mm		555.9092	10
16-14 AWG		1/4"/6mm		555.9102	
16-14 AWG		5/16"/8mm		555.9112	
16-14 AWG		3/8"/10mm		555.9122	
12-10 AWG	Yellow	#8/4mm		555.9150	20
12-10 AWG		#10/5mm		555.9154	
12-10 AWG		1/4"/6mm		555.9164	
12-10 AWG		5/16"/8mm		555.9174	
12-10 AWG		3/8"/10mm		555.9184	
12-10 AWG	Pink	1/2"/12mm		555.9190	10
8 AWG		1/4"	Seamless	555.9200	
					25

HEAT SHRINK CONNECTORS

CRIMP & SOLDER RING TERMINALS



8201.911010 8201.911410 8201.911414 8201.911438 8201.911214 8201.910438

Wire Gauge	Colour	Stud Size	Type	Seam Type	Art. No.	P. Qty.
22-18 AWG	Red	#10	Long	Brazed	8201.911010	25
16-14 AWG	Blue	#10			8201.911410	
16-14 AWG	Blue	1/4"			8201.911414	
16-14 AWG	Blue	3/8"			8201.911438	
12-10 AWG	Yellow	1/4"			8201.911214	
12-10 AWG	Yellow	3/8"			8201.910438	

Features:

- These connectors are crimped for mechanical reliability, soldered for superior strength and conductivity, and sealed for maximum durability.
- 45° barrel allows installer to see wire is fully inserted and properly stripped and crimped.
- Long neck design allows multiple terminals to be stacked flush without tubing impeding contact.
- Lead-free solder
 - Reduce exposure in the workplace
 - Tin bismuth alloy is RoHS compliant
- Pre-fluxed solder sleeve provides quality soldered connection
- Low melting point allows for quick installation
- Excellent surface tension keeps solder in place
- Quality colour-coded translucent heat shrink tubing
 - Adhesive lining provides seal against corrosion
 - Wire gauge imprint provides easy identification

SOLDER RINGS



8201.831010 8201.84138 8201.841010 8201.841014

8201.84238 8201.801010 8201.801014 8201.80138

Features:

- These connectors provide an easy-to-use quality sealed solder connection.
- 45° barrel allows installer to see wire is fully inserted and properly stripped and crimped.
- Long neck design allows multiple terminals to be stacked flush without tubing impeding contact.
- Lead-free solder
 - Reduce exposure in the workplace
 - Tin bismuth alloy is RoHS compliant
- Pre-fluxed solder sleeve provides quality soldered connection
- Low melting point allows for faster installation
- Excellent surface tension keeps solder in place
- Quality colour-coded translucent heat shrink tubing
 - Adhesive lining provides seal against corrosion
 - Wire gauge imprint provides easy identification

Wire Gauge	Colour	Stud Size	Type	Art. No.	P. Qty.
18-22 AWG	Pink	#10	Long	8201.831010	25
14-16 AWG	Blue	#8		8201.84138	
14-16 AWG	Blue	#10		8201.841010	
14-16 AWG	Blue	1/4"		8201.841014	
14-16 AWG	Blue	3/8"		8201.84238	
10-12 AWG	Yellow	#10		8201.801010	
10-12 AWG	Yellow	1/4"		8201.801014	
10-12 AWG	Yellow	3/8"		8201.80138	

HEAT SHRINK CONNECTORS

SOLDER BLADE CONNECTORS



8201.90152



8201.85202



8201.94152

Wire Gauge	Colour	Size	Male/Female	Type	Art. No.	P. Qty.
16-14 AWG	Blue	1/4"	Female	Insulated	8201.90152	25
16-14 AWG	Blue	1/4"	Female	Fully insulated	8201.85202	
16-14 AWG	Blue	1/4"	Male	Insulated	8201.94152	

Features:

- These connectors provide an easy-to-use quality sealed solder connection.
- Lead-free solder
 - Reduce exposure in the workplace
 - Tin bismuth alloy is RoHS compliant
 - Pre-fluxed solder sleeve provides quality soldered connection
 - Low melting point allows for faster installation
 - Excellent surface tension keeps solder in place
- Quality colour-coded translucent heat shrink tubing
 - Adhesive lining provides seal against corrosion
 - Wire gauge imprint provides easy identification

CRIMP SOLDER BLADE CONNECTORS



8201.142500



8201.952414

Wire Gauge	Colour	Size	Male/Female	Type	Art. No.	P. Qty.
16-14 AWG	Blue	1/4"	Female	Fully insulated	8201.142500	25
16-14 AWG	Blue	1/4"	Male	Insulated	8201.952414	

Features:

- These connectors are crimped for mechanical reliability, soldered for superior strength and conductivity, and sealed for maximum durability.
- Lead-free solder
 - Reduce exposure in the workplace
 - Tin bismuth alloy is RoHS compliant
 - Pre-fluxed solder sleeve provides quality soldered connection
 - Low melting point allows for quick installation
 - Excellent surface tension keeps solder in place
- Quality colour-coded translucent heat shrink tubing
 - Adhesive lining provides seal against corrosion
 - Wire gauge imprint provides easy identification

INSULATED CONNECTORS

SPADE CONNECTORS



555.94522 555.90522 555.94544 555.90544 555.92411 555.90511

Features:

- Translucent colour-coded, adhesive-lined polyolefin tubing allows visual inspection, prevents wire corrosion, and provides a waterproof seal.
- Conforms to automotive manufacturers' specifications for wiring repairs, necessary for maintaining electrical warranties.
- Seamless spades prevent opening of connector barrel.

Spade Connectors						
Wire Gauge	Colour	Tab Size	Type	Seam Type	Art. No.	P. Qty.
16-14 AWG	Blue	.250 "	Male	Butted	555.94522	20
16-14 AWG	Blue	.250 "	Female	Butted	555.90522	
12-10 AWG	Yellow	.250 "	Male	Butted	555.94544	
12-10 AWG	Yellow	.250 "	Female	Butted	555.90544	
20-18 AWG	Red	.250 "	Male	Butted	555.92411	10
20-18 AWG	Red	.250 "	Female	Butted	555.90511	20

BULLET CONNECTORS



555.9482 555.9492

Features:

- Translucent, adhesive-lined polyolefin tubing allows visual inspection, prevents wire corrosion, and provides a waterproof seal.
- Conforms to automotive manufacturers' specifications for wiring repairs, necessary for maintaining electrical warranties.
- Seamless spades prevent opening of connector barrel.
- Colour-coded tubing with wire gauge imprint provides easy identification of the correct part for the job.

Bullet Connectors						
Wire Gauge	Colour	Stud Size	Type	Seam Type	Art. No.	P. Qty.
16-14 AWG	Blue	.157"	Receptacle	Butted	555.9482	20
16-14 AWG	Blue	.157"	Plug	Butted	555.9492	

U-TERMINALS



555.95321 555.9542 555.9214 555.9224

Features:

- Translucent, adhesive-lined polyolefin tubing allows visual inspection, prevents wire corrosion, and provides a waterproof seal.
- Conforms to automotive manufacturers' specifications for wiring repairs, necessary for maintaining electrical warranties.
- Colour-coded tubing with wire gauge imprint provides easy identification of the correct part for the job.

U-Terminals					
Wire Gauge	Colour	Stud Size	Seam Type	Art. No.	P. Qty.
16-14 AWG	Blue	#8	-	555.95321	20
16-14 AWG	Blue	#10	-	555.9542	
12-10 AWG	Yellow	#8	Brazed	555.9214	10
12-10 AWG	Yellow	#10	-	555.9224	

INSULATED CONNECTORS

NYLON FULLY INSULATED SPADE CONNECTORS



553.1494 553.90511 553.1493 553.1496 553.1495 553.1498 553.1497

Wire Gauge	Colour	Type	Stud Size	Art. No.	P. Qty
22-18 AWG	Red	Female	1/4"	553.1494	50
22-18 AWG	Red	Female		553.90511	25
22-18 AWG	Red	Male		553.1493	50
16-14 AWG	Blue	Female		553.1496	
16-14 AWG	Blue	Male		553.1495	
12-10 AWG	Yellow	Female		553.1498	
12-10 AWG	Yellow	Male		553.1497	

Features:

- Designed for heavy duty applications and superior performance
- Tin plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Serrated barrel for greater wire retention/pullout strength
- Operating temperature range from -67° to 221°F (-55° to 105°C)
- Rated 300V

NYLON SOLDERLESS INSULATED SPADE CONNECTORS



555.9511 555.9515 555.9521 555.9525 555.9531 555.9532

Spade Connectors						
Wire Gauge	Colour	Tab Size	Type	Seam Type	Art. No.	P. Qty.
22-18 AWG	Red	.250 "	Male	-	555.9511	20
22-18 AWG	Red	.250 "	Female	-	555.9515	
16-14 AWG	Blue	.250 "	Male	-	555.9521	
16-14 AWG	Blue	.250 "	Female	-	555.9525	
12-10 AWG	Yellow	.250 "	Male	-	555.9531	
12-10 AWG	Yellow	.250 "	Female	-	555.9532	

Features:

- Designed for heavy duty applications and superior performance
- Tin plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Serrated barrel for greater wire retention/pullout strength
- Operating temperature range from -67° to 221°F (-55° to 105°C)
- Rated 300V

INSULATED CONNECTORS

NYLON SOLDERLESS BUTT CONNECTOR - FLARED ENDS



553.9251



553.9262



553.9274

Features:

- Designed for heavy duty applications and superior performance
- Tin plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Serrated barrel for greater wire retention/pullout strength
- Operating temperature range from -67° to 221°F (-55° to 105°C)
- Rated 300V

Nylon Solderless Butt Connector - Flared Ends

Wire Gauge	Colour	Art. No.	P. Qty
22-18 AWG	Red	553.9251	50
16-14 AWG	Blue	553.9262	
12-10 AWG	Yellow	553.9274	25

90° FLAG CONNECTORS

INSULATED FLAG CONNECTORS 1/4 (6.3MM)



558.162165



558.162265



558.162465

Features:

- Designed for heavy duty applications and superior performance
- Tin plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Serrated barrel for greater wire retention/pullout strength
- Operating temperature range from -67° to 221°F (-55° to 105°C)
- Rated 300V

Insulated Flag Connector				
Wire Gauge	Colour	Stud Size	Art. No.	P. Qty
22-18 AWG	Red	1/4"	558.162165	100
16-14 AWG	Blue		558.162265	
12-10 AWG	Yellow		558.162465	50

MINI PIN CONNECTORS



553.220



553.221

Features:

- Designed for heavy duty applications and superior performance for extreme vibration and moisture
- 3 part construction contains: inner lug, additional copper sleeve for added strength, crimpability and seamless outer nylon cover
- Serrated barrel for greater wire retention/ pullout strength
- Rated 600V

Mini Pin Connectors					
Wire Gauge	Description	Mate	Colour	Art. No.	P. Qty
22-18 AWG	Insulated Male Mini Pin .078"	553.221	Clear	553.220	20
22-18 AWG	Insulated Female Mini Pin .078"	553.220		553.221	

CLOSED END CONNECTORS



555.125



555.200



555.550

Features:

- Closed connectors for multi-wire use
- Made of Nylon

Wire Gauge	Colour	Art. No.	P. Qty
22-18 AWG	Clear	555.125	100
16-14 AWG		555.200	
12-10 AWG		555.550	

NON-INSULATED CONNECTORS

NON-INSULATED SOLDERLESS BUTT CONNECTOR



553.9701



553.9702



553.9703



553.9704



553.9705



553.9706



553.9707

Features:

- Tin plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Serrated barrels for greater wire retention/pullout strength

Non-Insulated Solderless Butt Connector			
Wire Gauge	Seam Type	Art. No.	P. Qty
22-18 AWG	Seamed	553.9701	100
16-14 AWG		553.9702	
12-10 AWG		553.9703	
8 AWG	Seamless	553.9704	25
22-18 AWG		553.9705	100
16-14 AWG		553.9706	
12-10 AWG		553.9707	50

NON-INSULATED CONNECTORS



Features:

- Tin plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Serrated barrels for greater wire retention/pullout strength



Uninsulated Connectors				
Wire Gauge	Description	Mate	Art. No.	P. Qty
-	Electrical Connector (1male) (1 female) All ends	-	553.1380	40
16-14 AWG	Male Spade with lock tab M6.3	553.2221	553.2221	20
16-14 AWG	Female Spade with lock tab M6.3	553.222	553.222	
22-18 AWG	Solderless Ring Terminal #6	-	558.11205	100
16-14 AWG	Solderless Ring Terminal #10	-	558.11310	
12-10 AWG	Solderless Ring Terminal #10	-	558.11410	
12-10 AWG	Solderless Ring Terminal #12	-	558.11414	50
16-14 AWG	Female Spade Connector M6.3	-	558.45040	100
16-14 AWG	Male Spade Connector M6.3	-	558.5019	
16-14 AWG	Female Spade Connector M8	-	558.5020	50
16-14 AWG	Female Spade Connector	558.5144	558.5029	
16-14 AWG	Male Bullet Connector M4	558.5051	558.5038	100
16-14 AWG	Female Spade Connector M6.3	558.5019	558.5040	50
12-10 AWG	Female Spade Connector M6.3	-	558.5047	100
16-14 AWG	Female Bullet Connector M4	558.5038	558.5051	
16-14 AWG	XL Male Spade Connector with locktab	-	558.5054	50
16-14 AWG	Female Spade Connector 1/4"	-	558.5135	
16-14 AWG	Piggyback (1 Male) (1 Female) 1/4"	-	558.5143	50
16-14 AWG	Male Spade Connector 2.8	558.5029	558.5144	100
16-14 AWG	Ring Connector M4 (#8)	-	558.5215	
16-14 AWG	Ring Connector M5 (#10)	-	558.5217	
16-14 AWG	Ring Connector M6 (1/4")	-	558.5219	
16-14 AWG	Ring Connector M8 (5/16")	-	558.5221	
10-12 AWG	Female Spade Connector M10 (3/8")	-	558.5266	50
16-14 AWG	Female Spade Connector 4.8mm	-	558.5312	100
16-14 AWG	Female Spade with lock tab connector (2.8 mm)	-	558.6010	
-	Piggyback (1 male) (1 female)	-	558.928	50
22-18 AWG	Blade Connector	-	558.9967	25
16-14 AWG	Blade Connector	-	558.9969	
24-20 AWG	Round Socket Male 1.65m diameter	-	558.9970	
16-14 AWG	Blade Connector (4.8/5.8mm)	-	558.9972	

PVC SOLDERLESS BULLET CONNECTORS AND TERMINALS

BULLET CONNECTORS



553.9501 553.9502 553.9503 553.9505 553.9603 553.9605 553.9601

Bullet Connectors					
Wire Gauge	Description	Mate	Colour	Art. No.	P. Qty
22-18 AWG	Male Bullet Connector .157"	553.9502	Red	553.9501	25
22-18 AWG	Female Bullet Connector .157"	553.9501	Red	553.9502	
16-14 AWG	Male Bullet Connector .157"	553.9505	Blue	553.9503	
16-14 AWG	Female Bullet Connector .157"	553.9503	Blue	553.9505	
22-18 AWG	Male Bullet Connector .180"	-	Red	553.9601	
16-14 AWG	Male Bullet Connector .180"	553.9605	Blue	553.9603	
16-14 AWG	Female Bullet Connector .180"	553.9603	Blue	553.9605	



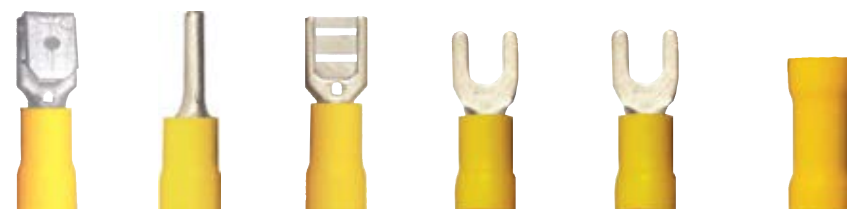
Features:

- Rigid PVC sleeves for improved abrasion resistance
- Tin plated annealed copper for improved corrosion resistance, max conductivity and crimp strength
- Operating temperature range from -67° to 221°F (-55° to 105°C)
- Rated 300V

12-10 GA - YELLOW



558.961 558.962 558.9054 558.9464



558.9521 558.9524 558.9414 558.9214 558.9224 558.9274



558.9144 558.9154 558.9164 558.9174 558.9184 558.5032



Features:

- Rated 600V, 167° F (75° C) except for disconnects, M/F bullets and piggyback
- Quality terminals for years of dependable service
- Tin plated annealed copper for improved corrosion resistance, max conductivity and crimp strength
- Serrated barrels for greater wire retention/pullout strength
- Ridged PVC sleeves for improved abrasion resistance

12-10 GA Yellow		
Art. No.	Description	P. Qty
558.961	Male Bullet Connector #10	25
558.962	Female Bullet Connector #10	
558.9054	Female Spade Connector M6.3 1/4"	50
558.9464	Male Spade Connector 1/4"	
558.9521	Piggyback 1/4"	
558.9524	Male Pin Connector .075"	
558.9414	Female Spade Connector 3/8"	
558.9214	U-Term Flat #8	
558.9224	U-Term Flat #10	
558.9274	Butt Connector	
558.9144	Ring Terminal #8	
558.9154	Ring Terminal #10	
558.9164	Ring Terminal 1/4"	25
558.9174	Ring Terminal 5/16"	
558.9184	Ring Terminal 3/8"	
558.5032	Ring Terminal 1/2"	

PVC SOLDERLESS CONNECTORS AND TERMINALS

16-14 GA - BLUE



Features:

- Rated 600V, 167° F (75° C) except for disconnects, M/F bullets and piggyback
- Quality terminals for years of dependable service
- Tin plated annealed copper for improved corrosion resistance, max conductivity and crimp strength
- Serrated barrels for greater wire retention/pullout strength
- Ridged PVC sleeves for improved abrasion resistance



16-14 GA Blue		
Description	Art. No.	P. Qty
Male Spade Connector M4.8	558.97621	50
Male Spade Connector M6.3	558.9452	
Male Bullet Connector M5	558.9482	
Female Spade Connector M4.8	558.9762	
Female Spade Connector M6.3	558.9052	
Female Spade Connector M6.3	558.90522	
Female Spade Connector M8	558.9402	
Female Bullet M5	558.9492	
Piggyback M6.3	558.9432	
Male Pin Connector	558.9512	
Ring Terminal M3.5 hole #6	558.9072	
Ring Terminal M4 hole #8	558.9082	
Ring Terminal M5 hole #10	558.9092	
Ring Terminal M6 hole 1/4"	558.9102	
Ring Terminal M8 hole 5/16"	558.9112	
Ring Terminal M10 hole 3	558.9122	
U Terminal Flat M5 #10	558.9542	100
U-Terminal Flat M4	558.9532	
Butt Connector	558.9262	100

22-18 GA - RED

Features:

- Rated 600V, 167° F (75° C) except for disconnects, M/F bullets and piggyback
- Quality terminals for years of dependable service
- Tin plated annealed copper for improved corrosion resistance, max conductivity and crimp strength
- Serrated barrels for greater wire retention/pullout strength
- Ridged PVC sleeves for improved abrasion resistance



22-18 GA Red		
Description	Art. No.	P. Qty
Male Spade Connector M2.8	558.9751	50
Female Spade Connector M2.8	558.960	
Male Spade Connector M4.8	558.97611	
Female Spade Connector M4.8	558.9761	
Male Spade Connector M6.3	558.9441	
Female Spade Connector M6.3	558.9051	100
Female Spade Connector M6.3	558.90511	
Bullet Male Connector M4	558.9461	50
Bullet Female Connector M4	558.9471	
Piggyback Connector M6.3	558.9421	100
Male Pin Connector	558.9501	
Ring Terminal M4 hole (#8)	558.9011	50
Ring Terminal M5 hole (#10)	558.9021	
Ring Terminal M6 hole (1/4")	558.9031	25
Ring Terminal M8 hole (5/16")	558.9041	
U-Term Flat M4	558.9551	50
Butt Connector	558.9251	

PREMIUM NYLON CONNECTORS AND TERMINALS - HEAVY DUTY - 600V

12-10 GA - YELLOW



967.09464 967.09054 967.09144 967.09154 967.09164 967.09174



967.09184 967.09194 967.09214 967.09224 967.09274

Features:

- Rated 600V
- Designed for heavy duty applications and superior performance for extreme vibration and moisture.
- Tin Plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Temperatures -67 to 221°F (-55 to 105°C)

12-10 GA Yellow		
Description	Art. No.	P. Qty
Heavy Duty Female Spade Connector 1/4" hole	967.09054	50
Heavy Duty Ring Terminal M4 hole (#8)	967.09144	
Heavy Duty Ring Terminal M5 hole (#10)	967.09154	
Heavy Duty Ring Terminal M6 hole (1/4")	967.09164	
Heavy Duty Ring Terminal M8 hole (5/16")	967.09174	
Heavy Duty Ring Terminal M10 hole (3/8")	967.09184	
Heavy Duty Ring Terminal 1/2" hole	967.09194	25
Heavy Duty U-Term Flat M4 #8	967.09214	
Heavy Duty U-Term Flat M5 (#10)	967.09224	50
Heavy Duty Butt Connector	967.09274	
Heavy Duty Male Spade Connector 1/4"	967.09464	

16-14 GA - BLUE



967.09503 967.09505 967.09452 967.09052 967.8004 967.8007



967.09262 967.09072 967.09082 967.09092 967.09102 967.09112



967.09122 967.09530 967.09532 967.8003 967.9432 967.9512

Features:

- Rated 600V
- Designed for heavy duty applications and superior performance for extreme vibration and moisture.
- Tin Plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Temperatures -67 to 221°F (-55 to 105°C)

16-14 GA Blue		
Description	Art. No.	P. Qty
Female Spade Connector 1/4" hole	967.09052	50
Ring Terminal M3.5 hole	967.09072	
Ring Terminal M4 hole #8"	967.09082	
Ring Terminal M5 hole #10"	967.09092	
Ring Terminal M6 hole 1/4"	967.09102	
Ring Terminal M8 hole 5/16"	967.09112	
Ring Terminal M10 hole 3/8"	967.09122	
Butt Connector	967.09262	
Male Spade 1/4"	967.09452	
Male Bullet	967.09503	
Female Bullet	967.09505	50
U-Term #6	967.09530	
U-Term Flat #8	967.09532	
Fully insulated Female Connector M4.8	967.8003	
Fully insulated Female Connector M6.3	967.8004	
Fully Insulated Male Connector M6.3	967.8007	
Duty Nylon Piggyback M6.3	967.9432	
Nylon Pin Terminal M6.3	967.9512	

PREMIUM NYLON CONNECTORS AND TERMINALS - HEAVY DUTY - 600V

22-18 GA - RED



Features:

- Rated 600V
- Designed for heavy duty applications and superior performance for extreme vibration and moisture.
- Tin Plated annealed copper for improved corrosion resistance, maximum conductivity and crimp strength
- Temperatures -67 to 221°F (-55 to 105°C)

22-18 GA Red		
Description	Art. No.	P. Qty
Ring Terminal M4 hole (#8)	967.09011	100
Ring Terminal M5 hole (#10)	967.09021	50
Ring Terminal M6 hole (1/4")	967.09031	
Ring Terminal M8 hole (5/16")	967.09041	
Spade Connector 1/4" hole	967.09051	
Butt Connector	967.09251	
Male Spade Connector M6.3	967.09441	100
Nylon Male Bullet	967.09501	
Nylon Female Bullet	967.09502	
U-Term M3.7	967.09550	
U-Term M4	967.09551	
Female Spade Connector M2.8	967.0960	50
Female Spade Connector M4.8	967.09761	
Fully Insulated Female Spade Connector	967.8002	
Fully Insulated Male Spade Connector	967.8006	
Nylon Pin Terminal M6.3	967.9501	

SCOTCH LOCKS



555.562



555.564



555.557



555.567



555.558

Scotch Locks				
Description	Wire Gauge	Colour	Art. No.	P. Qty
Scotch Lock - Run + Tap	12-10 AWG	Yellow	555.562	25
Scotch Lock - Run + Tap	16-14 AWG	Blue	555.564	50
Scotch Lock for Multiple Wires	16-14 AWG	Brown	555.567	
Scotch Lock - Dual Element	22-18 AWG	Red	555.557	
Scotch Lock - open end for all ends	22-18 AWG	Red	555.558	

Insulation Displacement Connectors

Features:

- Quick and reliable installation
- Solvent resistant plastic

Use:

- To install, just squeeze
- No stripping or twisting required

TAP CONNECTORS-1/4"



555.951



555.952



555.953

Tap Connector				
Wire Gauge	Colour	Mates With	Art. No.	P. Qty
22-18 AWG	Red	555.9511	555.951	25
16-14 AWG	Blue	555.9521	555.952	50
12-10 AWG	Yellow	555.9531	555.953	25

Features:

- Rigid PVC for improved abrasion resistance
- Solderless
- Flame Retardant

WIRE NUTS



553.10378



553.10380



553.10381

Wire Nuts				
Wire Gauge	Voltage	Colour	Art. No.	P. Qty
24-16 AWG	300	Grey	553.10378	25
20-14 AWG	600	Orange	553.10380	
18-12 AWG		Yellow	553.10381	10

Features:

- Use on solid or stranded copper wire
- Threaded steel insert permits positive bite
- Can be used with multiple wires

GM METRIPACK TERMINALS



557.15939



557.15938



557.15944



557.15945



557.15946



557.15947



557.14150



557.14151

Features:

- Tin plates that utilize flex pin and lap-lock designs to provide the highest reliability.
- Dual locking tangs securely hold terminal inside the connector cavity.



557.15937



557.15948



557.18324



557.18325



557.15499



557.15498



557.14883



557.15497



557.14880



557.14881

GM Metripack Terminals				
Description	Gauge	Mate	Art. No.	P. Qty
Male Pin Terminal	20-18	557.14151	557.14150	20
Female Pin Terminal;	20-18	557.14150	557.14151	
Male Pin Terminal	18-14	-	557.14880	
GM Electronic Terminal	20-18	-	557.14883	10
	20-18	-	557.15497	
GM Metripack Terminal	20-18	-	557.15498	20
	20-16	-	557.15499	
	16-14	557.15939	557.15938	
	16-14	557.15938	557.15939	
	16-14	557.15945	557.15944	
	16-14	557.15944	557.15945	
	20-18	557.15947	557.15946	
	20-18	557.15946	557.15947	
	16-14	557.15948	557.15937	
	16-14	557.15937	557.15948	
	12	557.18325	557.18324*	
	12	557.18324	557.18325*	
	16-14	557.14880	557.14881	

METRIPACK TERMINALS

GM WEATHERPACK


Features:

- Tin plates that utilize flex pin and lap-lock designs to provide the highest reliability.
- Dual locking tangs securely hold terminal inside the connector cavity.

GM Weatherpack			
Description	Gauge	Art. No.	P. Qty
Repair Lead 10" (18 opi wire)	20-18	557.15921	5
	20-18	557.15922	
Green Silicone Cavity Plug	-	557.15955	50
GM Weatherpack Cable Seal	14	557.18326	20
	20-18	557.14152	

FORD METRIPACK TERMINALS


Features:

- Tin plates that utilize flex pin and lap-lock designs to provide the highest reliability.
- Dual locking tangs securely hold terminal inside the connector cavity.

Ford Metripack Terminals				
Description	Gauge	Mate	Art. No.	P. Qty
Ford Male Terminal	20-18	557.16344	557.16342	10
Ford Female Terminal	20-18	557.16342	557.16344	
Ford Box Female Terminal	20-18	-	557.14889	25
Ford Female Snap On Terminal	20-18	-	557.14892	20

CAVITY MATES



557.15952



557.15950



557.18145



557.18146



557.15953



557.15954



557.15951



557.15949



557.18149



557.18150



557.18148



557.18152



557.18151



557.18147

Cavity Mate Terminals				
Description	Mate	For Connection	Art. No.	P. Qty
4 Cavity Male Tower	557.18146	557.15948	557.18145	5
4 Cavity Female Terminal	557.18145	557.15937	557.18146	
5 Cavity Round Male Terminal	557.18150		557.18149	10
5 Cavity Round Female Terminal	557.18149	557.15937	557.18150	
4 Cavity Square Male Terminal	557.18148	-	557.18147	20
4 Cavity Square Female Terminal	557.18147	-	557.18148	5
6 Cavity Female Terminal	557.15948	-	557.18152	10
6 Cavity Male Terminal	557.18152	557.15948	557.18151	
3 Cavity Male Terminal	557.15954	557.15948	557.15953	
3 Cavity Female Terminal	557.15953	557.15937	557.15954	
2 Cavity Male Terminal	557.15952		557.15951	20
2 Cavity Female Terminal	557.15951	557.15937	557.15952	
1 Cavity Female Terminal	557.15949	557.15937	557.15950	10
1 Cavity Male Terminal	557.15950	557.15948	557.15949	

ASSORTMENTS



Art. No. 964.5581

**Insulated Cable Connector Assortment
Contents (531 Pieces):**

18 types of insulated cable connectors



Art. No. 964.0558

**Electrical Connector Assortment
Contents (450 Pieces):**

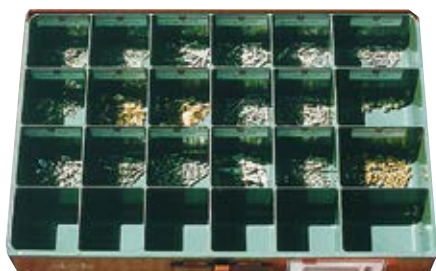
18 types of Prefix 555 & 558
insulated electrical connectors



Art. No. 965.5531

**Start-Up Connector Assortment
Contents (675 Pieces):**

14 types of Prefix 553 insulated electrical connectors



Art. No. 965.557

**GM/Ford Pin Terminal Assortment
Contents (300 Pieces):**

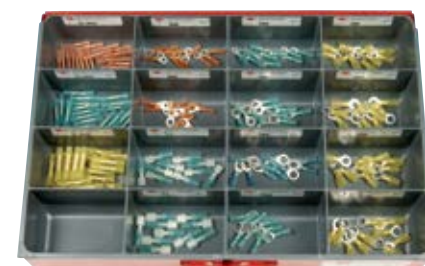
15 types of domestic pin terminals



Art. No. 965.967

**600 Volt Electrical Connector Assortment
Contents (675 Pieces):**

15 types of Prefix 967 600 V insulated
electrical connectors



Art. No. 965.5551

**Heat Shrink Electrical Connector Assortment
Contents (195 Pieces):**

15 types of heat shrink electrical connectors



Art. No. 965.5554

**Hydralink Assortment
Contents (64 Pieces):**

4 sizes of hydralink heat shrink tubing, 4 sizes
of butt connectors, 2 closed end connectors



Art. No. 965.055501

**Heat Shrink Solder Connector Assortment
Contents (65 Pieces):**

13 types of heat shrink solder connectors including
butt connectors, ring terminals and blade connectors

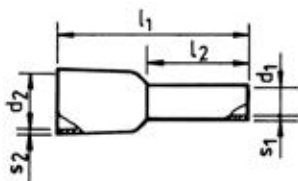


Art. No. 965.558600

**PVC Solderless Connector Assortment
Contents (600 Pieces):**

24 different PVC connectors, including ring
terminals, bullet connectors and spade connectors

WIRE END FERRULES (WITH PLASTIC SLEEVES)



- Inlet nipple heat resistant up to 110 °C (230 °F)
- Tube: Copper, electroplated tin
- Free of halogens

Cross section in mm ² / in ²	Colour	Dimensions						Art. No.	P. Qty.
		L1 (mm/ in)	L2 (mm/in)	d1 (mm/in)	S1 (mm/in)	d2 (mm/ in)	S2 (mm/ in)		
4.0 / 0.006	grey	17.8 / 0.70	10.0 / 0.39	2.8 / 0.11	0.20 / 0.008	4.4 / 0.17	0.40 / 0.16	557.00400	1000
10.0 / 0.016	ivory	21.5 / 0.85	12.0/0.47	4.5 / 0.18		7.6 / 0.30		557.01000	500
16.0 / 0.025	green	22.2 / 0.87		5.8 / 0.23		8.8 / 0.35		557.01600	100

WIRE END FERRULE BOX



Art. No. 557.101

Contents: 100 pieces

Cross section in mm ² / in ²	Colour	# of Pieces	Art. No.
4.0 / 0.006	Grey	50	557.00400
6.0 / 0.009	Black	20	557.00600
10.0 / 0.016	Ivory	20	557.01000
16.0 / 0.025	Green	10	557.01600

LUGS

COPPER LUGS



557.1543

557.1540

557.1575

557.1532

557.1541

Features:

- Seamless 100% copper tube construction.
- Can be crimped or soldered.
- Ideal for general wiring as well as starter or ground connections.



557.1553

557.1582

557.1551

557.1570

557.1571

557.1603

557.1552

557.1542



557.1605

557.1591

557.1604

557.1581

557.1580

557.1601

557.1592

557.1593

557.1602

Wire End copper lugs			
Gauge	Hole Size	Art. No.	P. Qty
4/0	3/8"	557.1543	10
4/0	1/2"	557.1540	
3/0	1/2"	557.1575	
3/0	3/8"	557.1532	
2/0	1/2"	557.1541	
2/0	3/8"	557.1542	
1 GA	3/8"	557.1582	
1/0	1/2"	557.1551	
1 GA	1/2"	557.1570	
1 GA	5/16"	557.1603	
1/0	3/8"	557.1552	

Wire End copper lugs			
Gauge	Hole Size	Art. No.	P. Qty
2 GA	3/8"	557.1553	10
2 GA	5/16"	557.1605	
4 GA	1/4"	557.1591	
4 GA	3/8"	557.1581	
4 GA	1/2"	557.1580	
4 GA	5/16"	557.1604	
6 GA	1/4"	557.1601	
6 GA	1/2"	557.1592	
6 GA	3/8"	557.1593	
6 GA	5/16"	557.1602	
2 GA	1/2"	557.1571	10

LUGS PREFIX 557

90° MAX LUGS



557.595100

Features:

- Seamless 100% copper tube construction
- Can be crimped or soldered
- Ideal for general wiring as well as starter or ground connections
- Tin Plated



557.5952



557.595200



557.5953



557.595400



557.5955



557.595300



557.595500



557.5956



557.595800



557.595700



557.5958



557.595600



557.5957

90° Max Copper Lugs - Tin Plated

Gauge	Hole Size	Art. No.	P. Qty
6 GA	1/2"	557.595100	5
4 GA	3/8"	557.5952	
4 GA	1/2"	557.595200	
2 GA	3/8"	557.5953	
2 GA	1/2"	557.595300	
1 GA	1/2"	557.595400	

90° Max Copper Lugs - Tin Plated

Gauge	Hole Size	Art. No.	P. Qty
1/0	3/8"	557.5955	5
1/0	1/2"	557.595500	
2/0	3/8"	557.5956	
2/0	1/2"	557.595600	
3/0	3/8"	557.5957	
3/0	1/2"	557.595700	
4/0	3/8"	557.5958	
4/0	1/2"	557.595800	

LUGS

MAGNA LUGS - RIGHT ELBOW



557.6308



557.6310



557.6312



557.6313

Features:

- Made of 100% copper, tin plated for added conductivity and to resist corrosion
- Heavy wall copper lugs 80% heavier wall than standard lugs
- Wider pad for better electrical contact, thicker pad for greater strength and conductivity
- Elbows and bent lugs are designed to reduce cable stress in confined space
- Excellent for commercial and industrial applications
- Flameless installation; safe for shop and field repair

Magna Lug				
Gauge	Hole Size	Elbow	Art. No.	P. Qty
6 GA	3/8"	Right Elbow	557.6308	5
4 GA			557.6309	
1 & 2			557.6310	
1/0			557.6311	
2/0			557.6312	
3/0			557.6313	



557.6309



557.6311

LUGS

MAGNA LUGS - LEFT ELBOW



557.6318



557.6320



557.6321



557.6323



557.6324



557.6319



557.6322

Features:

- Made of 100% copper, tin plated for added conductivity and to resist corrosion
- Heavy wall copper lugs 80% heavier wall than standard lugs
- Wider pad for better electrical contact, thicker pad for greater strength and conductivity
- Elbows and bent lugs are designed to reduce cable stress in confined spaces
- Excellent for commercial and industrial applications

Magna Lug				
Gauge	Hole Size	Elbow	Art. No.	P. Qty
6 GA	3/8"	Left Elbow	557.6318	5
4 GA			557.6319	
1 & 2			557.6320	
1/0			557.6321	
2/0			557.6322	
3/0			557.6323	
4/0			557.6324	

LUGS

POWER LUGS

Features:

- Made of 100% copper, tin plated for added conductivity and to resist corrosion
- Heavy wall copper lugs 80% heavier wall than standard lugs
- Wider pad for better electrical contact, thicker pad for greater strength and conductivity
- Exceeds SAE conductivity standards J163 and J1811



557.91705 557.91706 557.91707 557.91715 557.91716 557.91717 557.91725



557.91726 557.91727 557.91728 557.91745 557.91746 557.91747 557.91749 557.91757



557.91759 557.91767 557.91769 557.91777 557.91779 557.91787 557.91789

LUGS

POWER LUGS

Power Lugs				
Gauge	Hole Size	Colour	Art. No.	P. Qty.
8 GA	1/4"	Grey	557.91705	5
8 GA	5/16"		557.91706	
8 GA	3/8"		557.91707	
6 GA	1/4"		557.91715	
6 GA	5/16"		557.91716	
6 GA	3/8"		557.91717	
4 GA	1/4"		557.91725	
4 GA	5/16"		557.91726	

Power Lugs				
Gauge	Hole Size	Colour	Art. No.	P. Qty.
4 GA	3/8"	Grey	557.91727	5
4GA	1/2"		557.91728	
1-2	1/4"	Pink	557.91745	
1-2	5/16"		557.91746	
1-2	3/8"		557.91747	
1-2	1/2"		557.91749	
1/0	3/8"	Black	557.91757	
1/0	1/2"		557.91759	

Power Lugs				
Gauge	Hole Size	Colour	Art. No.	P. Qty.
2/0	3/8"	Orange	557.91767	5
2/0	1/2"		557.91769	
3/0	3/8"	Purple	557.91777	
3/0	1/2"		557.91779	
4/0	3/8"	Yellow	557.91787	
4/0	1/2"		557.91789	

BRASS-TIN PLATED LUGS

Features:

- Seamless 100% copper tube construction.
- Can be crimped or soldered.
- Ideal for general wiring as well as starter or ground connections.

Brass-Tin Plated Lugs			
Gauge	Hole Size	Art. No.	P. Qty
4 GA	3/8"	557.9225	25
1/0	1/2"	557.9234	10
2 GA	1/2"	557.9230	
2/0	3/8"	557.9237	
1/0	3/8"	557.9233	
2 GA	3/8"	557.9229	25
2 GA	5/16"	557.9228	
6 GA	3/8"	557.9221	
4 GA	5/16"	557.9224	
6 GA	5/16"	557.9220	
6 GA	1/4"	557.9219	



557.9234



557.9237



557.9230



557.9233



557.9225



557.9229



557.9228



557.9221



557.9224



557.9220



557.9219

ASSORTMENTS



Art. No. 965.5572

Light Duty Copper Lug Assortment
Contents (205 Pieces):
16 types of copper lugs/ring tongues
Size range: 1 GA to 4/0



Art. No. 965.557150

Copper Lug Assortment
Contents (70 Pieces):
14 assorted sizes from 1/4" to 1/2"
Size range: 4 GA to 3/0



Art. No. 965.5573

Heavy Duty Power Lug Assortment
Contents (45 Pieces):
9 types of heavy duty power lugs
Size range: 1 GA to 4/0

POLE TERMINAL BRUSH



Art. No. 695.589544

- Cleans dirt and corrosion from battery terminals and cable clamps
- Strong metallic bristles for excellent deposit removal
- Convenient lid provides safe storage
- Rotate the round battery terminal brush on each terminal to ensure a good, solid electrical connection

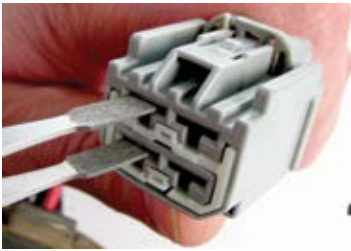
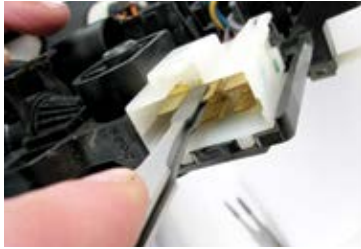
BOOSTER CLAMPS



- Solid copper clamp for maximum conductivity
- Weighs over 3/4 lb
- Insulated grips
- 3 coil spring provides over 50 lbs of clamping pressure
- Strain relief for longer cable life
- Lugs bolt to booster clamp

Description	Grip Colour	Clamp Amp. Rating	Clamp Style	Art. No.
Booster Clamp	Red	900 Amp	Parrot	715.3051
Booster Clamp	Black	900 Amp	Parrot	715.3056

HARD DIAMOND COATED TERMINAL TWEEZERS



Art. No. 695.6000

This 3 piece set features a highly durable and abrasive coating for cleaning small spade pin electrical connectors. They reduce diagnostic guesswork and increase overall harness life.

Features:

- For flat and spade style terminals
- Works on both male and female connectors
- Removes corrosion and extends harness life
- Reduces diagnostic guesswork by eliminating bad connectors
- Includes a holster for small medium and large cleaners

Contents:

Large, medium and small tweezers for the most common connectors found in automotive, trucks, heavy equipment, and agricultural machinery.

REPLACEMENT ITEMS ARE NOT CURRENTLY AVAILABLE.

Areas of application:

Computer modules, Engines, General transmissions, Fans, Alternator connections, Radios, Lights

SUPER HARD DIAMOND COATED ROUND MICRO FILES - 12 PIECES



Art. No. 695.6001

Great for cleaning and reworking small type electrical bullet connectors as well as general filing applications on Steel, Brass, Aluminum and Plastic

Features:

- Diamond coated round micro files
- 12 piece set in a custom holster
- Made from stainless spring steel wire for optimum strength and flexibility
- Remove corrosion from round electrical connectors
- Also for use in general filing applications such as steel, aluminum, plastic, brass etc.
- File diameter sizes: .030" (2x), .040" (2x), .050", .060", .070", .080", .090", .100", .110", .120"
- The smallest file (.030") can clean Deutsch connectors

REPLACEMENT ITEMS ARE NOT CURRENTLY AVAILABLE.

TRUCK AND TRAILER CONNECTOR CLEANER SET - 9 PIECES



Art. No. 695.6002

Allows for precise removal of corrosion from both male and female pins, while maintaining proper pin dimensions.

Features:

- Maintain continuity and prevent circuit failure
- Clean and re-size trailer pins
- Remove corrosion from connectors
- Extend harness life
- Use as a pin wear gauge

Includes:

- 4 and 5 round pin
- 6 round pin
- 7 flat (spade) pin
- 7 round pin
- Swab-Eez® 8 mm and 5 mm head

Applications:

- Bullet, butt and standard connectors
- AWG terminal connectors; auto, marine, and industrial uses

4 and 5 round pin



Female



Male

7 flat (Spade) Pin



6 round pin



Female



Male

7 round pin



Female



Male



A B C D E F G H I

	Description	Dimensions
A	7 Round Pin	5.5"
B	7 Round Pin	7.5"
C	7 Flat Pin Male	5.375"
D	7 Flat Pin Female	5.125"
E	4/5 & 6 Round Pin	5.125"
F	6 Round Pin	4.875"
G	5mm Head Swab-Eez™	5mm x 6"
H	8mm Head Swab-Eez™	8mm x 6"
I	5mm Head Swab-Eez™	5mm x 3"

REPLACEMENT PINS ARE NOT CURRENTLY AVAILABLE.

DIAMOND-COATED FLEXIBLE CONTACT CLEANING FILES (3PCS)



Art. No. 715.700

The three-piece Diamond-Coated Flexible Flat Point & Electrical Contact Cleaners feature highly durable, super hard, and abrasive diamond coating for cleaning and enhancing electrical connections to reduce diagnostic guesswork and increase contact life.

The set includes a small (6 mm), medium (9mm) and large (15mm) wide, but ultra-thin, flexible cleaner with ergonomic, non-slip handles. Optimized for cleaning large spade terminals including relays and forklift contacts, these flexible, diamond flat files are also great for use in general filing applications.

Features & Benefits:

- Three-piece set covers wide range of contact sizes
- Super hard, diamond coating is highly abrasive and durable
- Enhances connections and extends contact life
- Non-slip, ergonomic handles for comfortable use
- Ultra-thin, flexible files for added functionality

Areas of application:

- Large Spade Relays
- Forklift Contacts
- Industrial Electrical Contacts
- Spark plug electrodes
- General filing use on steel, brass, plastic and aluminum



REPLACEMENT ITEMS ARE NOT CURRENTLY AVAILABLE.

VEHICLE TEST LAMP



Art. No. 695.00224

- Voltage range 6-24
- Cable length: 750 mm
- Voltage testing
- Cable check

TEST CLIPS RED/BLACK PAIR



Art. No. 715.16971

- 10 Amp.
- 2-1/4" long

WEATHER PACK EXTRACTOR TOOL









Art. No. 557.14462

Designed for extracting weather pack terminals from their connector housing

RELEASING TOOLS



For circular plug contacts with locking lugs on contact

		For contacts	Contact ø in mm.	Art. No.	P. Qty.
		Pins and sockets	1.5	713.558110	1
		Pins and sockets (e.g. MATE-N-LOK) Replacement Sleeve: Art. No. 558.999810		713.558130	
		Pins and sockets	2.3	713.558140	

MICRO MALE PIN CLEANERS



Art. No. 695.7000

Würth Micro Male Electrical Pin Cleaners are specially engineered with a contoured design and diamond-coating to clean male electrical pins safely.

Features:

- Durable diamond coating
- Innovative contoured design
- For all types of male electrical pin applications
- The 3-piece set includes a leather-type holster and male electrical pin cleaners ranging in sizes from .030"-0.040", .060"-0.065", and .090"-0.098"

Benefits:

- Easy to clean pins that are recessed into deep welled plastic housings
- Will not damage pins
- Includes leather type holster
- For use on DC circuitry only

Areas of application:

For cars, trucks, construction, agriculture, industrial and marine equipment.

- Used for cleaning round pins like those found on Deutsch, Cannon and Amphenol Connectors.

REPLACEMENT ITEMS ARE NOT CURRENTLY AVAILABLE.



BATTERY TERMINALS

STRAIGHT TIN PLATED

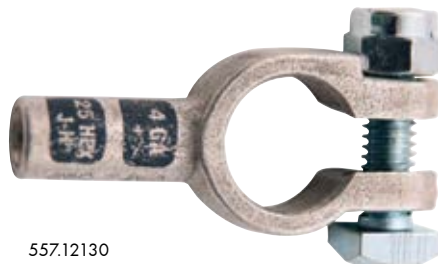
Made from 100% Copper Alloy and tin plated to resist corrosion!

Features:

- Made of cast copper alloy, tin plated for added conductivity and corrosion resistance
- Permanent, indelible, readable gauge and polarity stamped on clamp
- Crimp markings for easily installation
- Fasteners included
- 25 times better than SAE conductivity standard J163 and J1811



557.12128



557.12130



557.12143



557.12144



557.12173



557.12183



557.12184



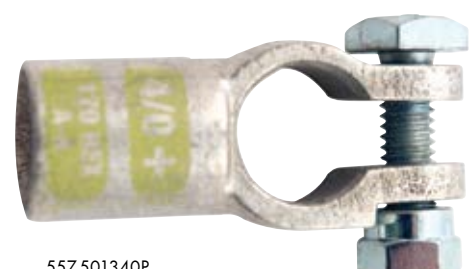
557.12174



557.501310N



557.501310P



557.501340P

Straight Battery Terminals				
Gauge	Polarity	Colour	Art. No.	P. Qty
4 GA	Negative	Green	557.12128	5
4 GA	Positive	Green	557.12130	
1-2	Negative	Pink	557.12143	
1-2	Positive	Pink	557.12144	
2/0	Negative	Orange	557.12173	
2/0	Positive	Orange	557.12174	5
3/0	Negative	Purple	557.12183	
3/0	Positive	Purple	557.12184	
1/0	Negative	Black	557.501310N	
1/0	Positive	Black	557.501310P	
4/0	Negative	Yellow	557.501340N	5
4/0	Positive	Yellow	557.501340P	



557.501340N

BATTERY TERMINALS

STRAIGHT LEAD PLATED



553.0838



553.0880

Application:

- Automotive or light truck applications
- Accepts 6 thru 2/0 gauge cable sizes
- Lead construction fasteners included

Lead Battery Terminals				
Gauge	Polarity	Colour	Art. No.	P. Qty
6-2	n/a	n/a	553.0838	10
6-2	n/a	n/a	553.0880	

RIGHT ELBOW TIN PLATED

Elbow connectors designed to reduce cable stress in confined spaces



557.12263



557.12264

Features:

- Made of cast copper alloy, tin plated for added conductivity and corrosion resistance
- Permanent, indelible, readable gauge and polarity stamped on clamp
- Fasteners included
- Crimp markings for easy installation

Right Elbow Tin Plated Battery Terminals				
Gauge	Polarity	Colour	Art. No.	P. Qty
1/0	Negative	Black	557.12263	5
1/0	Positive	Black	557.12264	
2/0	Negative	Red	557.12273	
2/0	Positive	Red	557.12274	
3/0	Negative	Purple	557.12283	
3/0	Positive	Purple	557.12284	



557.12273



557.12274



557.12283



557.12284

BATTERY TERMINALS

LEFT ELBOW TIN PLATED

Elbow connectors designed to reduce cable stress in confined spaces.

Features:

- Made of cast copper alloy, tin plated for added conductivity and corrosion resistance
- Permanent, indelible, readable gauge and polarity stamped on clamp
- Fasteners included
- Crimp marking for easy installation

Left Elbow Tin Plated Battery Terminals				
Gauge	Polarity	Colour	Art. No.	P. Qty
1/0	Negative	Black	557.12363	5
1/0	Positive	Black	557.12364	
2/0	Negative	Red	557.12373	
2/0	Positive	Red	557.12374	
3/0	Positive	Purple	557.12384	



557.12363



557.12364



557.12373



557.12374



557.12384

BATTERY TERMINALS

UNIVERSAL POWER TERMINAL

Locking and anti-rotating power terminals to get the job done right!

- Features:**
- Made of 100% copper, tin plated for added conductivity and to resist corrosion
 - Heavy wall copper lugs 80% heavier wall than standard lugs
 - Wider pad for better electrical contact, thicker pad for greater strength and conductivity
 - Elbows and bent lugs are designed to reduce cable stress in confined space
 - Excellent for commercial and industrial applications
 - Exceeds SAE conductivity standards J163 and J1811
 - 3/8" hole



557.13928 557.13958 557.13968 557.13978



557.13988 557.13998

Universal Power Terminals			
Gauge	Colour	Art. No.	P. Qty
4 GA	Grey	557.13928	5
1-2	Pink	557.13958	
1/0	Black	557.13968	
2/0	Orange	557.13978	
3/0	Purple	557.13988	
4/0	Yellow	557.13998	

BATTERY TERMINALS

BUTT SPICE TERMINALS

Heavy Duty Butt Splice Terminals			
Gauge	Colour	Art. No.	P. Qty
4/0	Yellow	557.501740	5
3/0	Purple	557.91870	
2/0	Orange	557.507120	
1/0	Black	557.501710	
1/2	Pink	557.50172	
4 GA	Green	557.50174	
Butt Splice Terminal			
8 GA	-	557.91800	5
6 GA	-	557.91810	

Copper Butt Splice

Features:

- Seamless 100% copper tube construction
- Can be crimped or soldered
- Ideal for general wiring as well as starter or ground connections



557.501740



557.91870



557.50172



557.91810



557.507120



557.501710



557.50174



557.91800

TERMINAL ACID PROTECTOR

Features:

- Battery washers seal out acid fumes protecting terminals from corrosion.
- Ideal for new batteries or clean up and repair of used batteries.
- The terminal washer is coated with a corrosive preventative that will not evaporate.

Terminal Acid Protector				
Polarity	Colour	Position	Art. No.	P. Qty
Negative	Black	Top	557.99014	25
Positive	Red	Top	557.99015	
Negative	Black	Side	557.99017	



557.99017



557.99014



557.99015



BATTERY ACCESSORIES

NUTS & BOLTS



557.99001



557.99005



557.99010



557.99013



557.99002



557.99052



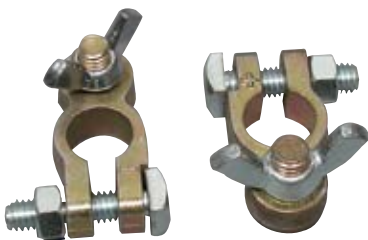
557.99057



557.99513

Description	Art. No.	P. Qty
OEM type side mount terminal bolt 3/8-16x13/32	557.99001	10
Side mount bolt with exterior screw for dual power lead - zinc 3/8-16x1	557.99002	
Stainless steel stud nut - closed cap 3/8-16	557.99005	
Universal stud to post converter (positive & negative) 3/8	557.99010	
Adapter bolt - side term - for single power lead 3/8-16x3/8	557.99013	5
Square head steel bolt & nut, zinc plated 5/16-18x1-1/4	557.99052	25
Square head bolt & nut, tin plated 5/16-18x1-1/2"	557.99057	
Square head bolt with shoulder nut, zinc 5/16-x1-1/2"	557.99513	

BATTERY CONNECTORS FOR MARINE APPLICATIONS



Art. No. 510.30 (Negative, 5/16")
Art. No. 510.31 (Positive, 3/8")

- Heavy duty brass connectors with Tin-plated steel fasteners (anti-corrosion treatment for metal)
- Converts battery post to stud connector
- Permits quick disconnection from battery
- Eliminates current drain during storage
- Meets U.S.C.G. (United States Coast Guard) regulations
- 5 pieces/bag

ASSORTMENTS



Art. No. 965.5571

**Battery Terminal Power
Splice Assortment**
Contents (80 Pieces):
16 types of battery terminal/power splices
Size range: 1 GA to 4/0

DEUTSCH CONNECTORS



- Common contact system utilizes common tooling
- Stainless steel sleeves over contact fingers protects them from damage, increasing socket-terminal performance
- Properly crimped connections are air-tight
- Made from flame-retardant, high grade thermoplastics to reduce the risk of fire
- Operating temperature: -55 °C to +125 °C (-67 °F to +257 °F)
- Fail-safe connector assembly ensures the locking wedge can only be inserted if the contacts are fully inserted and the connectors can only be coupled if the wedges are fully inserted
- Withstand intense physical shock and vibration



NOTE: Use Universal Sealing Plug, Art. No.

887.114017, to blank unused connections

Crimping tool for solid pins and sockets, Art. No. 887.AMSC12 - Size 12

Art. No. 887.AMSC16 - Size 16

Art. No. 887.AMSC20 - Size 20



DT Series

- Accommodates wire sizes from 14 - 18 AWG
- Current rating: 13 amps
- Contacts withstand a load of 25 lbs for size 16
- Audible coupling feedback
- Environmentally sealed connections designed for cable to cable applications under the hood, on the chassis or in the cab
- Thermoplastic housings and silicone seals
- Contact insertion and withdrawal require no special tools
- Secondary locks

Pins/Socket	Style	Size	Art. No.
Pin	Stamped	14 - 16 AWG	887.106014012
Socket	Stamped	14 - 16 AWG	887.106214012
Pin	Solid	16 - 18 AWG	887.460202
Socket	Solid	16 - 18 AWG	887.462201
Pin	Solid	14 - 16 AWG	887.460215
Socket	Solid	14 - 16 AWG	887.462209

No. Pins	Art. No.	Art. No.	Art. No.	Art. No.
	Plug	Plug Locking Wedge	Receptacle	Receptacle Locking Wedge
2	887.DT06-2S	887.W2S	887.DT04-2P	887.W2P
3	887.DT06-3S	887.W3S	887.DT04-3P	887.W3P
4	887.DT06-4S	887.W4S	887.DT04-4P	887.W4P
6	887.DT06-6S	887.W6S	887.DT04-6P	887.W6P
8	887.DT06-8S	887.W8S	887.DT04-8P	887.W8P
12	887.DT06-12S	887.W12S	887.DT04-12P	887.W12P

DEUTSCH CONNECTORS

No. Pins	Art. No.	Art. No.	Art. No.	Art. No.
	Plug	Plug Locking Wedge	Receptacle	Receptacle Locking Wedge
2	887.DTM06-2S	887.WM-2S	887.DTM04-2P	887.WM-2P
3	887.DTM06-3S	887.WM-3S	887.DTM04-3P	887.WM-3P
4	887.DTM06-4S	887.WM-4S	887.DTM04-4P	887.WM-4P
6	887.DTM06-6S	887.WM-6S	887.DTM04-6P	887.WM-6P
8	887.DTM06-8S	887.WM-8S	887.DTM04-8P	887.WM-8P
12	887.DTM06-12S	887.WM-12S	887.DTM04-12P	887.WM-12P

Pins/Socket	Style	Size	Art. No.
Pin	Stamped	16 - 20 AWG	887.106020012
Socket	Stamped	16 - 20 AWG	887.106220012
Pin	Solid	20 - 24 AWG	887.4602022
Socket	Solid	20 - 24 AWG	887.4622011

No. Pins	Art. No.	Art. No.	Art. No.	Art. No.
	Plug	Plug Locking Wedge	Receptacle	Receptacle Locking Wedge
2	887.DTP06-2S	887.WP2S	887.DTP04-2P	887.WP2P
4	887.DTP06-4S	887.WP4S	887.DTP04-4P	887.WP4P

Pins/Socket	Style	Size	Art. No.
Pin	Solid	10 - 14 AWG	887.460204
Socket	Solid	10 - 14 AWG	887.462203
Pin	Stamped	10 - 14 AWG	887.106012016
Socket	Stamped	10 - 14 AWG	887.106212106

DTM Series

- Accommodates 16 - 20 AWG wire
- 20 GA - 7.5 Amps continuous
- Contact retention up to 20 lbs
- Silicone seals at front and rear provide water tight sealing
- Good for compact spaces

DTP Series

- Accommodates wire sizes from 10 - 14 AWG
- 25 amps continuous at +125 °C (257 °F)
- Multi-pin power connector
- Environmentally sealed
- Two and four pin arrangements
- Corrosion resistance: 48 hours of salt spray per MIL-STD 1344, method 1001

Numbering System Explained (Plugs and Receptacles)

Example:

Art. No. 887.DTM06-2S

● Prefix ● Deutsch Connector series (06: Plug / 04: Receptacle) ● Number of contacts ● Contact Type (S: Socket Plug / ● P: Pin Receptacle)

ASSORTMENTS



Art. No. 965.8873

Deutsch Connectors for 10-14 AWG Power Series

Contents (358 Pieces):

Pins, sockets and plug assemblies for Deutsch DTP series



Art. No. 965.8871

Deutsch Connectors for 14-18 AWG DT Series

Contents (599 Pieces):

Pins, sockets, and plug assemblies for Deutsch DT series



Art. No. 965.8872

Deutsch Connectors for 16-20 AWG Mini Series

Contents (424 Pieces):

Pins, sockets and plug assemblies for Deutsch DTM series

DEUTSCH SOLID CONTACT CRIMPING TOOL



- Creates a four-indent crimp providing the most uniform displacement of wire and contact material
- Ratchet design ensures full crimp is completed
- For solid contacts

Contact Size	Art. No.
12 AWG	887.AMSC12
14 - 18 AWG	887.AMSC16
20 - 22 AWG	887.AMSC20

DEUTSCH TERMINAL REMOVAL TOOLS



For the removal of contact/wire assemblies from DT series plugs.

Application:

- With rear insert toward you, snap appropriate size extractor tool over the wire of contact to be removed.
- Slide tool along wire into the insert cavity until it engages contact and resistance is felt.
- Pull contact/wire assembly out of connector.

NOTE: Do not twist tool or insert at an angle.

Colour	Wire Gauge	Art. No.	P. Qty
Red	20 GA	715.555330	5
Blue	16 GA	715.555320	
Yellow	12 GA	715.555310	

AMP SUPERSEAL 1.5 CONNECTORS



TE Superseal 1.5 Series.

Certification:

According to IEC 529 and DIN 40050 IP 67

Features:

Designed to meet the increasing requirements for reliability and waterproofness, Superseal connectors meet the sealing requirements outlined in IEC 529 and DIN 40050 IP 67 specifications. Primarily used in automotive, industrial and agricultural machinery.

- Compact system minimizes packaging requirements.
- Sealing reliability proven under harsh conditions.
- Designed for ease of manual harness assembly, engine mounting and under hood environments.

Applications:

- Wire to wire (1.5mm) and ECU applications, under hood or any location where sealing is required.
- Suitable for automotive, truck, bus or off-road vehicles.

Resistant to ozone, salts, gasoline, diesel fuel, brake fluid, anti-freeze/coolant, transmission gear lubricant, and motor oil.

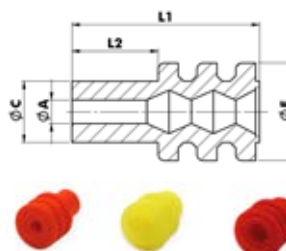
Plug Housing	0555.1021	0555.1022	0555.1023	0555.1024	0555.1025	0555.1026
Socket Housing	0555.1031	0555.1032	0555.1033	0555.1034	0555.1035	0555.1036
Pack Size	10	20	20	10	10	10
# of poles	1	2	3	4	5	6
Wire gauge	22GA - 14GA (0.35-2.5mm ²)	22GA - 14GA (0.35-2.5mm ²)	22GA - 14GA (0.35-2.5mm ²)	22GA - 14GA (0.35-2.5mm ²)	22GA - 14GA (0.35-2.5mm ²)	22GA - 14GA (0.35-2.5mm ²)
IP Rating	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67
Max voltage	24 V/DC	24 V/DC	24 V/DC	24 V/DC	24 V/DC	24 V/DC
Max amperage	14 A	14 A	14 A	14 A	14 A	14 A
Operating temperature	-40 to +125 °C	-40 to +125 °C	-40 to +125 °C	-40 to +125 °C	-40 to +125 °C	-40 to +125 °C
Material	Polyamide PA 6/6	Polyamide PA 6/6	Polyamide PA 6/6	Polyamide PA 6/6	Polyamide PA 6/6	Polyamide PA 6/6
Colour	Black	Black	Black	Black	Black	Black

AMP SUPERSEAL CONNECTORS – PINS & SEALS



GA/ mm ²	Insul. dia. in mm	Seal dia. in mm	Plug in mm	Material	Surface	Art. No.	P. Qty.
22 - 20 GA (0.35 - 0.5)	1.2 - 1.6	3.40	1.5	CuSn	Sn (tinned)	0558.99580	100
18 - 16 GA (0.75 - 1.5)	1.7 - 2.4					0558.99582	
16 - 14 GA (1.5 - 2.5)	2.2 - 3.3					0558.99584	

GA/ mm ²	Insul. dia. in mm	Seal dia. in mm	Plug in mm	Material	Surface	Art. No.	P. Qty.
22 - 20 GA (0.35 - 0.5)	1.2 - 1.6	3.40	1.5	CuSn	Sn (tinned)	0558.99579	100
18 - 16 GA (0.75 - 1.5)	1.7 - 2.4					0558.99581	
16 - 14 GA (1.5 - 2.5)	2.2 - 3.3					0558.99583	



Drill dia. (mm)	Insul. dia. A (mm)	Dia. C (mm)	Dia. F (mm)	Length (mm)	Wire Gauge	Colour	Art. No.	P. Qty.
5.15	1.2 - 2.1	3.40	5.56	7.50	22 - 17 GA (0.35 - 1.0 mm ²)	Orange	0558.991406	100
	1.7 - 2.4		6.10	7.80	18 - 16 GA (0.75 - 1.5 mm ²)	Yellow	0558.99141	
	2.5 - 3.3		6.1		14 GA 2.5 mm ²	Red	0558.99142	
					Sealing Plug		0558.99145	

ASSORTMENT - AMP SUPERSEAL 1.5 CONNECTORS



Art. No. 5964.055501 - P. Qty. 1

440 pieces in a 4.4.1 System Case.

CONTENTS		
Description	Art. No.	P. Qty.
TE SUPERSEAL 1.5 SERIES PIN HOUSING 2 WIRE	0555.1022	4
TE SUPERSEAL 1.5 SERIES PIN HOUSING 3 WIRE	0555.1023	
TE SUPERSEAL 1.5 SERIES PIN HOUSING 4 WIRE	0555.1024	
TE SUPERSEAL 1.5 SERIES PIN HOUSING 5 WIRE	0555.1025	
TE SUPERSEAL 1.5 SERIES PIN HOUSING 6 WIRE	0555.1026	
TE SUPERSEAL 1.5 SERIES SOCKET HOUSING 2 WIRE	0555.1032	
TE SUPERSEAL 1.5 SERIES SOCKET HOUSING 3 WIRE	0555.1033	
TE SUPERSEAL 1.5 SERIES SOCKET HOUSING 4 WIRE	0555.1034	
TE SUPERSEAL 1.5 SERIES SOCKET HOUSING 5 WIRE	0555.1035	100
TE SUPERSEAL 1.5 SERIES SOCKET HOUSING 6 WIRE	0555.1036	
SUPERSEAL WIRE SEAL YEL (14-12GA) DIA 3.4MM	0558.99141	
SUPERSEAL WIRE SEAL RED (10-8GA) DIA 3.4MM	0558.99142	
SUPERSEAL PIN 1.5X0.8MM 20-14GA	0558.99581	100
SUPERSEAL SOCKET 1.5X0.8MM 20-14GA	0558.99582	

AMP SEAL CRIMPING TOOL



Art. No. 0714.107130- P. Qty. 1

Crimping plier with integrated locator.

Features & Benefits:

- Crimping pliers for TE Super Seal connectors.
- Integrated locator keeps pin in place while crimping.
- Dual crimp function crimps connector to wire and seal to wire simultaneously.



TECHNICAL INFORMATION	
Connector type	TE Super Seal
Min/Max wire cross section	22-16 GA/0.35-1.5mm ²
Number of crimping points	2 pieces
Locator	Yes
Length	190mm
Material	Tool steel
Surface	Burnished
Handle grip material	Plastic

RELEASE TOOLS



For contacts	Blade width approx. (mm)	Contact dimensions (mm)	Art. No.	P. Qty.
Contacts with one locking lug	1.48	1.5	0713.558241	1

For contacts	Blade width approx. (mm)	Contact dimensions (mm)	Art. No.	P. Qty.
Secondary interlock	-	-	0713.558610	1

ROSIN CORE SOLDER



60 Tin/40 Lead

- General purpose, automotive solder
- Solder thickness: 0.062" (1.57 mm)
- Solder can be easily dispensed through the red cap on the tube

Quantity	Art. No.
0.50 oz.	987.062
1 lb	987.063

SOLDER GUN / HEAT TORCH

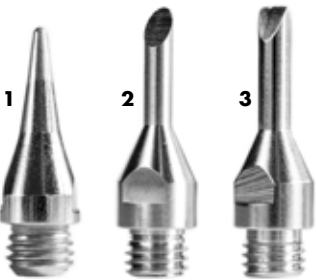


Art. No. 558.80

- Equivalent to a power range 30-125 watt
- Cordless, simple and safe to operate
- Ready to use 15 seconds after ignition
- Tank contains fuel for 200 minutes of operation

Additional Soldering Tips

#	Art. No.	Description	P. Qty.
1	558.80121	Standard Tip	1
2	558.80122	3mm Diagonal Tip	
3	558.80123	3.5mm Chisel Tip	



SOLDER SLUGS - FOR BATTERY TERMINALS



Gauge	Colour	Art. No.	P. Qty.
4	Grey	821.79501	10
2	Green	821.79502	
1	Pink	821.79503	
1/0	Black	821.79504	
2/0	Orange	821.79505	
3/0	Purple	821.79506	
4/0	Yellow	821.79507	

- Provides a high-quality termination without the need for expensive crimping tools
- Easily installed termination system
- Soldered connections provide maximum conductivity and superior tensile strength
- When used with an adhesive-lined heat shrink tubing, prevents cable corrosion
- Colour-coded pre-measured slugs conform to industry standards and ensure correct product identification
- Flux core prevents dirt and contaminants from hindering the soldering process. This is improved further through the use of a liquid flux.
- Installation only requires the use of standard shop tools: a propane torch and utility knife
- Works with any brand of closed-end battery terminals or starter lugs

Improperly installed connections leads to voltage drop, vibration damage and cable corrosion.

Using solder slugs is easy, provides maximum conductivity and superior tensile strength.

The use of an adhesive-lined heat shrink tubing prevents cable corrosion.



1. Strip the proper size cable so the exposed cable will reach the top of the battery terminal. The cable installation should fit snugly against the top. Insert proper size solder slug and apply solder flux.

2. Secure the battery terminal in a vise. Slide the proper size heat shrink tubing over the cable. Insert the exposed cable into the terminal. Heat the base of the battery terminal while applying gentle downward pressure on the cable.

3. As the solder melts, allow the cable to slide into the terminal until the installation is snug against the top of the terminal. Remove from heat. Slide the heat shrink tubing over the connection. Apply indirect heat to the tubing.

4. Allow connection to cool. You now have the most ideal connection.

NOTE: Solder used contains any or all of the following: antimony, cadmium, copper, indium, silver, iron, aluminum, nickel, arsenic, zinc, bismuth, gold, tin, lead. Meets specification J-STD-006.

Cutting Knife

Art. No. 715.6606

Dual Wall Heat Shrink Tubing Prefix 775, 776

INDUSTRIAL BATTERIES



- Will not leak, short circuit, or pole-connect.
- Long shelf life.
- Cannot be recharged.
- Please recycle where possible.

Description	Voltage	Art. No.
AAAA Battery	1.5	827.00
AAA Battery		827.01
AA Battery		827.02
C Battery		827.03
D Battery		827.04
9 V Battery	9.0	827.05

LITHIUM BATTERIES



Designation	Art. No.	Qty.
AA, 1.5 V	827.00002	2

Advantages of Lithium Batteries

The lithium battery provides excellent advantages, especially in the operation of: camera flashes, digital cameras, remote-control cars, wireless devices, medical consumers and consumers that often require peak currents of much more than 1 A and for which these currents must also be immediately available over a long standby time. With a modern digital camera, lithium batteries can be used for well over 200 pictures with flash. In comparison, alkaline batteries manage only about 50-60 pictures.

- Currently the longest-lasting batteries in the world! Can be used for almost any device requiring a long operational availability or high current drain (high-current applications).
- Ready for operation from -20 °C to +60 °C at full performance
- Outstanding resistance to leakage
- 30 % lighter than conventional alkaline batteries
- Minimal self-discharge (very long shelf life: over 10 years)
- Not rechargeable!

- Greater energy density = longer service life
 - Very high current output
 - Very long storage life thanks to minimal self-discharge
 - Very wide temperature range for storage and operation
- With low-current consumers, e.g. wall clocks, alarm clocks, flashlights, etc., there is no notable advantage over alkaline batteries. For this reason, they do not need to be used with these products.

6 VOLT BLOCK BATTERY



Features:

- Perfect for Rental Companies
- Mercury Free

Description	Output	Voltage	Art. No.	P. Qty
Block Battery	7 Ah	6	827.000001	1

LITHIUM BATTERY 3.7V #18650



Description	Voltage	Art. No.	P. Qty.
Lithium Ion Battery #18650	3.7V	827.805600	1

Lithium Battery 3.7V Ultrafire 3.7V 2400mAh Li-ion.
For use in the windshield UV lamp and Kit
(Art. No. 891.634425)

Features:

- 3.7 V 2400mAh
- Full voltage - 4.2 V
- Cut-off discharge - 2.75 V

Benefits:

- One charge gives up to 4 hours with a constant discharge rate

BLOCK BATTERY 12V



Features:

- Top mount battery posts
- 12V 12Amp-hour
- Battery supplied dry with acid bottle
- Advanced lead-calcium technology

Benefits:

- Maintenance-free and spill-proof
- 200 plus cold cranking amps

- No need to add water but periodic charging required when not in use
- Multiple use battery for Trailer Testers, ATV and most motorcycles

***Note:** Recycle and dispose according to local authority regulations. Always refer to equipment manual before installing battery.

Art. No.	Dimensions (mm)	Voltage	Weight	P. Qty.
827.000003	150 x 87 x 145	12V 12AH	9.5 lbs.	1

BUTTON CELL BATTERIES



- Only minor auto discharging
- Can be used in a large temperature range
- High system voltage
- Long shelf life

IEC Des.	Other designation	Voltage in V	System	Dia. x H in mm	Fig.	Art. No.	P.Qty
CR 1220	DL 1220	3	Lithium	12.5 x 2	1	827.0851220	10
CR 1616	DL 1616	3	Lithium	16.0 x 2	1	827.0851616	
CR 1620	DL 1620	3	Lithium	16.0 x 2	1	827.0851620	
CR 1632	DL 1632	3	Lithium	16.0 x 3.2	2	827.0851632	
CR 2016	DL 2016	3	Lithium	20.0 x 1.6	3	827.0852016	
CR 2025	DL 2025	3	Lithium	20.0 x 2.5	4	827.0852025	
CR 2032	DL 2032	3	Lithium	20.0 x 3.2	5	827.0852032	
CR 2450	DL 2450	3	Lithium	24.5 x 5	5	827.0852450	10
SR44/ LR 44	V13 GS (V13 GA); V357; A76	1.5	Silver oxide	11.6 x 5.4	6	827.08513	

Other Possible Applications			
Fitness	Pedometer, calorimeter, stopwatches, heart rate monitors	827.0852016, 827.0852032, 827.08513	
	Personal scales	827.0852032	
Health	Digital thermometers	827.08513, 827.0851616	
	Blood sugar meters	827.0851620, 827.0852016, 827.0852025, 827.0852032	
Toys	Toys and games	827.0852016, 827.0852025, 827.0852032, 827.08513	
Electronic Devices	Remote controls	827.0852025, 827.0852032	
	Pocket calculators/PDAs	827.0851620, 827.08513, 827.0851616	
	Organizers	827.0852016, 827.0852025, 827.0852032	
	Electronic levels	827.08513	
Motor vehicle accessories	Garage door openers	827.0852032, 827.0851616	
	Car alarm systems	827.08513, 827.0852450	
Watches		827.0851620, 827.0852016, 827.0852025, 827.0852032, 827.08513	
Misc.	Pet collars	827.0852032, 827.08513	
	Laser pointers	827.08513	
	LED lamps	827.0852016, 827.0852032, 827.0851616	

ASSORTMENTS



Art. No. 964.827

Battery Assortment
Contents (52 Pieces):
 5 types of batteries (AAA, AA, C, D, 9V)



Art. No. 965.558

Electrical Essentials Service Kit
Contents (97 Pieces):
 Black electrical tape; Soldering gun/heat torch; Ratchet-style crimp tool;