



SPECIALTY CONNECTORS | ELECTRICAL WIRE | ELECTRONICS & MORE

Industry Electric Systems

IndustryElectric.net

Tel 866.290.1410

Fax 401.406.2711



ABYC

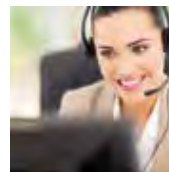
MIL SPEC





IES (Industry Electric Systems, Inc.) is committed to delivering exceptional quality, a comprehensive product line, strong value, and outstanding customer service. This commitment has helped us grow rapidly into one of the nation's leading specialty electrical suppliers for manufacturers and MRO end users. We look forward to providing solutions for your electrical needs and bringing innovation to your business.

BATTERY ACCESSORIES.....	49-50
BATTERY TERMINALS	47-48
CABLE TIES	29-32
CHEMICALS-SPRAYS.....	45-50
CLAMPS	33-34
CIRCUIT BREAKERS	60-62
COMPRESSION-MECHANICAL LUGS.....	52
COPPER LUGS.....	46
COPPER LUGS – TINNED.....	46
CRIMP-END CAPS	18
CRIMP TOOLS	14, 70
DEUTSCH PRODUCTS	20-24
EXPANDABLE SLEEVING.....	41-42
FERRULES	19
FRAME CLIPS	33
FUSES	55-57
FUSE HOLDERS.....	58-59
FUSE KITS	57, 72
GLOVES	44
GROMMETS	35
HEAT SHRINK TERMINALS	3-14
HEAT SHRINK TUBING.....	40
HIGH TEMP TERMINALS	16
HOSE CLAMPS	34
METRI-PACK.....	26-27
MX 150 SERIES.....	28
RELAYS	59
SCREWS-HARDWARE	73-74
SOLDER SHRINK CONNECTORS	10, 14
SOLENOIDS.....	67
STORAGE-BINS-RACKS.....	75
SWITCHES.....	65-66
TAPES	43-44
TERMINALS	3-16
TERMINAL KITS	12,14, 72
TEST CLIPS	17
THREE WAY SPLICES	13
TRAILER PRODUCTS	68
TOOLS	70
WEATHER PACK	25
WELD MOUNT	69-70
WIRE	36-39
WIRE LOOMS.....	41-42
WIRE NUTS.....	18



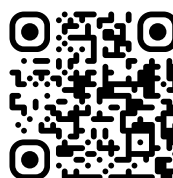
EXCEPTIONAL
CUSTOMER SERVICE



NATIONWIDE SALESFORCE/
INVENTORY MANAGEMENT



VOLUMINOUS STOCK



IndustryElectric.net



IMMEDIATE SHIPPING

	STUD SIZES	HEAT SHRINK INSULATED TYPE HS	TYPE XST EXTREME SEAL HEAT SHRINK	INSULATED NYLON W/SUPPORT SLEEVE TYPE VN	NON-INSULATED BRAZED BARREL TYPE W
RING TERMINALS	22-18 GAUGE				
	4	R2218-4HS	R2218-4XHS	R2218-4VN	R2218-4
	6	R2218-6HS*	R2218-6XHS	R2218-6VN	R2218-6*
	8	R2218-8HS*	R2218-8XHS	R2218-8VN	R2218-8*
	10	R2218-10HS*	R2218-10XHS	R2218-10VN	R2218-10*
	1/4	R2218-14HS	R2218-14XHS	R2218-14VN	R2218-14
	5/16	R2218-56HS	R2218-56XHS	R2218-56VN	R2218-56
	3/8	R2218-38HS	R2218-38XHS	R2218-38VN	R2218-38
BLOCK SPADES	22-18 GAUGE	—	—		
	4	—	—	FB2218-4VN	FB2218-4
	6	—	—	FB2218-6VN	FB2218-6
	8	—	—	FB2218-8VN	FB2218-8
	10	—	—	FB2218-10VN	FB2218-10
LOCKING/ SNAP SPADES	22-18 GAUGE				
	6	FF2218-6HS	FL2218-6XHS	FF2218-6VN	FF2218-6
	8	FF2218-8HS	FL2218-8XHS	FF2218-8VN	FF2218-8
	10	FF2218-10HS	FL2218-10XHS	FF2218-10VN	FF2218-10
FLANGED SPADES	22-18 GAUGE				
	6	FL2218-6HS	FF2218-6XHS	FL2218-6VN	FL2218-6
	8	FL2218-8HS	FF2218-8XHS	FL2218-8VN	FL2218-8
	10	FL2218-10HS	FF2218-10XHS	FL2218-10N	FL2218-10
BUTTS SPLICES	22-18 GAUGE				
		B2218HS	B2218VN	B2218N	B2218



HEAT SHRINK TERMINALS KITS
SEE PAGES 12 & 14



CRIMP TOOLS
SEE PAGE 71



AUTO & MARINE GRADE WIRE
SEE PAGES 36-39



* INDICATES AVAILABLE IN LONG
NECK. ADD "LN" TO PART#



	STUD SIZES	HEAT SHRINK INSULATED TYPE HS	TYPE XST EXTREME SEAL HEAT SHRINK	NYLON INSULATED W/SUPPORT SLEEVE TYPE VN	NON-INSULATED BRAZED BARRE TYPE W
RING TERMINALS	16-14 GAUGE				
	4	R1614-4HS	R1614-4XHS	R1614-4VN	R1614-4
	6	R1614-6HS*	R1614-6XHS	R1614-6VN	R1614-6*
	8	R1614-8HS*	R1614-8XHS	R1614-8VN	R1614-8*
	10	R1614-10HS*	R1614-10XHS	R1614-10VN	R1614-10*
	1/4	R1614-14HS*	R1614-14XHS	R1614-14VN	R1614-14*
	5/16	R1614-56HS*	R1614-56XHS	R1614-56VN	R1614-56*
	3/8	R1614-38HS*	R1614-38XHS	R1614-38VN	R1614-38*
	1/2	R1614-12HS	R1614-12XHS	R1614-12VN	R1614-12
BLOCK SPADES	16-14 GAUGE	—	—		
	4	—	—	FB1614-4VN	FB1614-4
	6	—	—	FB1614-6VN	FB1614-6
	8	—	—	FB1614-8VN	FB1614-8
LOCKING/ SNAP SPADES	16-14 GAUGE				
	6	FL1614-6HS	FL1614-6XHS	FL1614-6VN	FL1614-6
	8	FL1614-8HS	FL1614-8XHS	FL1614-8VN	FL1614-8
	10	FL1614-10HS	FL1614-10XHS	FL1614-10VN	FL1614-10
FLANGED SPADES	16-14 GAUGE				
	6	FF1614-6HS	FF1614-6XHS	FF1614-6VN	FF1614-6
	8	FF1614-86HS	FL1614-8XHS	FF1614-8VN	FF1614-8
	10	FF1614-10HS	FL1614-10XHS	FF1614-10VN	FF1614-10
BUTT SPICES	16-14 GAUGE				
		B1614HS	B1614VN	B1614N	B1614



#BSD22-14HS
Butt step down with heat shrink
14 to 22 gauge

STEP-DOWN BUTTS SEE PAGE 7



CABLE TIES SEE PAGES 29-31



* INDICATES AVAILABLE IN LONG NECK.
ADD "LN" TO PART#

	STUD SIZE	HEAT SHRINK INSULATED TYPE HS	TYPE XST EXTREME SEAL HEAT SHRINK	NYLON INSULATED W/SUPPORT SLEEVE TYPE VN	NON-INSULATED W/BRAZED BARREL TYPE W
RING TERMINALS	12-10 GAUGE				
	6	R1210-6HS	R1210-6XHS	R1210-6VN	R1210-6
	8	R1210-8HS	R1210-8XHS	R1210-8VN	R1210-8
	10	R1210-10HS	R1210-10XHS	R1210-10VN	R1210-10*
	1/4	R1210-14HS	R1210-14XHS	R1210-14VN	R1210-14*
	5/16	R1210-56HS	R1210-56XHS	R1210-56VN	R1210-56*
	3/8	R1210-38HS	R1210-38XHS	R1210-38VN	R1210-38*
	1/2	R1210-12HS	R1210-12XHS	R1210-12VN	R1210-12
BLOCK SPADES	12-10 GAUGE	-	-		
	6	-	-	FB1210-6VN	FB1210-6
	8	-	-	FB1210-8VN	FB1210-8
	10	-	-	FB1210-10VN	FB1210-10
LOCKING (SNAP) SPADES	12-10 GAUGE				
	6	FL1210-6HS	FL1210-6XHS	FL1210-6VN	FL1210-6
	8	FL1210-8HS	FL1210-8XHS	FL1210-8VN	FL1210-8
	10	FL1210-10HS	FL1210-10XHS	FL1210-10VN	FL1210-10
FLANGED SPADES	12-10 GAUGE				
	6	FF1210-6HS	FF1210-6XHS	FF1210-6VN	FF1210-6
	8	FF1210-8HS	FF1210-8XHS	FF1210-8VN	FF1210-8
	10	FF1210-10HS	FF1210-10XHS	FF1210-10VN	FF1210-10
BUTT SPICES	12-10 GAUGE				
	BUTT	B1210HS	B1210VN	B1210N	B1210



STEP DOWN BUTTS SEE PAGE 7



HEAT SHRINK TUBING SEE PAGE 40



#B1210XHS

2 GAUGE NON-INSULATED



STUD	IES#
10	R2-10
1/4	R2-14
5/16	R2-56
3/8	R2-38
1/2	R2-12
5/8	R2-58
BUTT	B-2

4 GAUGE NON-INSULATED



STUD	IES#
10	R4-10
1/4	R4-14
5/16	R4-56
3/8	R4-38
1/2	R4-12

6 GAUGE NON-INSULATED



STUD	IES#
10	R6-10
1/4	R6-14
5/16	R6-56
3/8	R6-38
1/2	R6-12
BUTT	B6

8 GAUGE NON-INSULATED



STUD	IES#
8	R8-8
10	R8-10
1/4	R8-14
5/16	R8-56
3/8	R8-38
1/2	R8-12
BUTT	B8



8 GA NON-INSULATED SPADE
10 STUD / IES# F8-10

2 GAUGE INSULATED



STUD	IES#
10	R2-10N
1/4	R2-56N
5/16	R2-56N
3/8	R2-38N
1/2	R2-12N
BUTT (PVC)	B2P

4 GAUGE INSULATED



STUD	IES#
10	R4-10N
5/16	R4-56N
3/8	R4-38N
1/2	R4-12N
BUTT (NYLON)	B4N

6 GAUGE INSULATED



STUD	IES#
10	R6-10N
1/4	R6-14N
5/16	R6-56N
3/8	R6-38N
1/2	R6-12N
3/4	R6-34N
BUTT (NYLON)	B6
BUTT (HEAT SHRINK)	B6HS



6 GA NYLON SPADE
1/4 STUD / IES# F6-14N

8 GAUGE INSULATED



STUD	IES#
8	R8-8N
10	R8-10N
1/4	R8-14N
5/16	R8-56N
3/8	R8-38N
1/2	R8-12N
BUTT (NYLON)	B8N
BUTT (HEAT SHRINK)	B8HS



8 GA NYLON INSULATED SPADE
10 STUD / IES# F8-10N

1/0 NON-INSULATED



STUD	IES#
1/4	R1/0-14
5/16	R1/0-56
3/8	R1/0-38
1/2	R1/0-12
BUTT	B1/0

2/0 NON-INSULATED



STUD	IES#
1/4	R2/0-14
5/16	R2/0-56
3/8	R2/0-38
1/2	R2/0-12
BUTT	B2/0

3/0 NON-INSULATED



STUD	IES#
1/4	R3/0-14
5/16	R3/0-56
3/8	R3/0-38
1/2	R3/0-12
3/4	R3/0-34
BUTT	B3/0

4/0 NON-INSULATED



STUD	IES#
1/4	R4/0-14
5/16	R4/0-56
3/8	R4/0-38
1/2	R4/0-12
3/4	R4/0-34
BUTT	B4/0



IES# CT8-4
Crimps 8-4 gauge non-insulated



IES# CT6-4/0
crimps 6-4/0 insulated and non

1/0 INSULATED



STUD	IES#
1/4	R1/0-14N
5/16	R1/0-56N
3/8	R1/0-38N
1/2	R1/0-12N

2/0 INSULATED



STUD	IES#
1/4	R2/0-14N
5/16	R2/0-56N
3/8	R2/0-38N
1/2	R2/0-12N

3/0 INSULATED



STUD	IES#
1/4	R3/0-14N
5/16	R3/0-56N
3/8	R3/0-38N
1/2	R3/0-12N
3/4	R3/0-34

4/0 INSULATED



STUD	IES#
1/4	R4/0-14N
5/16	R4/0-56N
3/8	R4/0-38N
1/2	R4/0-12N
3/4	R4/0-34N

STEP-DOWN BUTT CONNECTORS

INDUSTRY ELECTRIC has gone a step further by manufacturing the most complete and diverse step down line available. Solutions from non-insulated to heat shrink insulated 22 to 6 gauge.

GAUGE	NON-INSULATED	INSULATED NYLON	HEAT SHRINK
24-22	BSD24-22	BSD24-22N	BSD2422HS
14-22	BSD22-14	BSD22-14N	BSD22-14HS
10-14	BSD10-14	BSD10-14N	BSD10-14HS
8-10	BSD8-10	BSD8-10N	BSD8-10HS

DIELECTRIC GREASE BUTT CONNECTORS

INDUSTRY ELECTRIC VNMR line provides the user with a economical and quick solution for water and moisture exposure. Wire inserts into silicone filled barrel which surrounds, forms and protects copper strands.

22-18 GAUGE	B2218VNMR
16-14 GAUGE	B1614VNMR
12-10 GAUGE	B1210VNMR

HOOK TERMINALS

{#10 Stud}

GAUGE	HEAT SHRINK	INSULATED NYLON	NON-INSULATED
22-18	H2218-10HS	H2218-10VN	H2218-10
16-14	H1614-10HS	H1614-10VN	H1614-10
12-10	H1210-10HS	H1210-10VN	H1210-10

24-20 GAUGE

NYLON	HEAT SHRINK
B2420N	B2420HS

FEMALE



NON INSULATED

GAUGE	WIDTH	IES#
22-18	.110X.020	QDF22-110
22-18	.187X.020	QDF22-187
22-18	.250X.032	QDF22-25
16-14	.110X.020	QDF14-25
16-14	.187X.020	QDF14-187
16-14	.250X.032	QDF14-25
12-10	.250X.032	QDF10-25
12-10	.375X.032	QDF10-38

NYLON INSULATED (3 PC)

GAUGE	WIDTH	IES#
22-18	.110X.020	QDF22-110N
22-18	.187X.020	QDF22-187VM
22-18	.250X.032	QDF22-25VN
16-14	.110X.020	QDF14-110VN
16-14	.187X.020	QDF14-187VN
16-14	.250X.032	QDF14-25VN
12-10	.250X.032	QDF10-25VN
12-10	.375X.032	QDF10-38VN

HEAT SHRINK INSULATED

GAUGE	WIDTH	IES#
22-18	.110X.020	QDF22-110HS
22-18	.187X.020	QDF22-187HS
22-18	.250X.032	QDF22-25HS
16-14	.110X.020	QDF14-110HS
16-14	.187X.020	QDF14-187HS
16-14	.250X.032	QDF14-25HS
12-10	.250X.032	QDF10-25HS
12-10	.375X.032	QDF10-38HS

MALE



NON INSULATED

GAUGE	WIDTH	IES#
22-18	.187X.020	QDM22-187
22-18	.250X.032	QDM22-25
16-14	.187X.020	QDM14-187
16-14	.250X.032	QDM14-25
12-10	.250X.032	QDM10-25

NYLON INSULATED (3 PC)

GAUGE	WIDTH	IES#
22-18	.187X.020	QDM22-187VN
22-18	.250X.032	QDM22-25VN
16-14	.187X.020	QDM14-187VN
16-14	.250X.032	QDM14-25VN
12-10	.250X.032	QDM10-25VN

HEAT SHRINK INSULATED

GAUGE	WIDTH	IES#
22-18	.187X.020	QDM22-187HS
22-18	.250X.032	QDM22-25HS
16-14	.187X.020	QDM14-187HS
16-14	.250X.032	QDM14-25HS
12-10	.250X.032	QDM10-25HS

FLAGS (RIGHT ANGLE)



NON INSULATED

GAUGE	WIDTH	IES#
22-18	.250X.032	QDFG22-25
16-14	.250X.032	QDFG14-25
12-10	.250X.032	QDFG10-25



IES# FGNI-2210
NON-INSULATED FLAG TERMINAL
CRIMPER - 22 TO 10 GAUGE.

QUICK DISCONNECTS FULLY INSULATED

FEMALE

NYLON INSULATED			HEAT SHRINK INSULATED (HEAT SHRINK OVER NYLON)		
WIRE GAUGE	WIDTH	IES#	WIRE GAUGE	WIDTH	IES#
					
22-18	.110-X.020	QDFF22-110N	22-18	.110X.020	QDFF22-110HS
22-18	.187X.020	QDFF22-187N	22-18	.187X.020	QDFF22-187HS
22-18	.250X.032	QDFF22-25N	22-18	.250X032	QDFF22-25HS
					
16-14	.110-X.020	QDFF14-110N	16-14	.110X.020	QDFF14-110HS
16-14	.187X.020	QDFF14-187N	16-14	.187X.020	QDFF14-187HS
16-14	.250X.032	QDFF14-25N	16-14	.250X032	QDFF14-25HS
					
12-10	.250X.032	QDFF10-25N	12-10	.250X032	QDFF10-25HS

MALE

NYLON INSULATED			HEAT SHRINK INSULATED		
WIRE GAUGE	WIDTH	IES#	WIRE GAUGE	WIDTH	IES#
					
22-18	.187X.020	QDFM22-187N	22-18	.187X.020	QDFM22-187HS
22-18	.250X.032	QDFM22-25N	22-18	.250X.032	QDFM22-25HS
					
16-14	.187X.020	QDFM14-187N	16-14	.187X020	QDFM14-187HS
16-14	.250X.032	QDFM14-25N	16-14	.250X.032	QDFM14-25HS
					
12-10	.250X032	QDFM10-25N	12-10	.250X.032	QDFM10-25HS

INSULATED FLAGS (RIGHT ANGLE)



INSULATED (NYLON)			HEAT SHRINK INSULATED		
GAUGE	WIDTH	IES#	GAUGE	WIDTH	IES#
22-18	.187X.020	QDFG22-187N	22-18	.187X.020	QDFG22-187HS
22-18	.250X.032	QDFG22-25N	22-18	.250X.032	QDFG22-25HS
16-14	.187X.020	QDFG14-187N	16-14	.187X.020	QDFG14-187HS
16-14	.250X.032	QDFG14-25N	16-14	.250X.032	QDFG14-25HS
12-10	.250X.032	QDFG10-25N	12-10	.250X.032	QDFG10-25HS

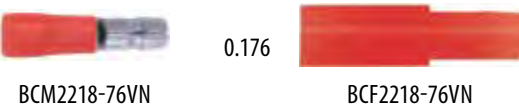
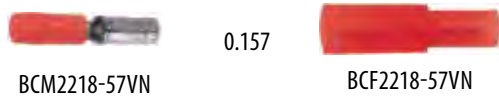
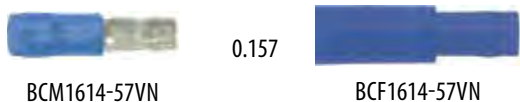
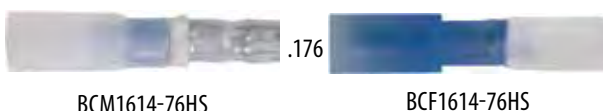


- Crimps 22-18 (Red) & 16-14 (Blue).
- 12-10 (Yellow) available by contacting IE.

INSULATED FLAG CRIMP TOOL IES# RTFI-2214

**BULLET CONNECTORS**

22-18 GAUGE {Nylon Insulated W/ Support Sleeve}

**HEAT SHRINK INSULATED****16-14 GAUGE {Nylon Insulated w support sleeve}****HEAT SHRINK INSULATED****TELEPHONE SPLICES**EC96IP
(Standard)EC96IS
(Water resistant- gel filled)**IGNITION TERMINALS**

RA600



RA715-680

**MOLEX PINS**

AP-129

AS-129

PIN TERMINALS (NYLON INSULATED)WP2218N
(22-18 GA)WP1614N
(16-14 GA)WP1210N
(12-10 GA)

All sizes available in Heat Shrink... add "HS" to end of part#

PIGGYBACKS (.187 OR .250 WIDTH)**22-18 GAUGE****16-14 GAUGE
NYLON INSULATED****12-10 GAUGE****HEAT SHRINK****FLAG LUGS**

12-2 GAUGE

For a complete list of
Flag Lugs contact IE sales.**3 WAY (3/16 SCREW) 4 WAY**R1614-YVN
16-14 GAUGER1614-XVN
16-14 GAUGEAlso available in 22-18 & 12-10 gauges and W/heat
shrink insulation. Add "hs" to end of part number.**SOLDER SHRINK**

(Heat only- no crimp)

26-24
GA

B2624ELHS

22-18
GA

B2218ELHS

16-14
GA

B1614ELHS

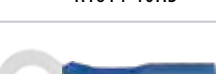
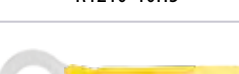
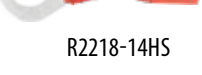
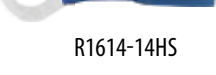
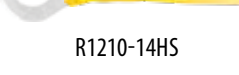
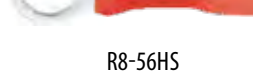
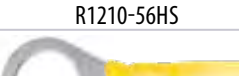
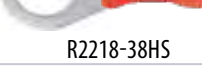
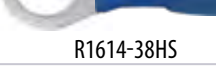
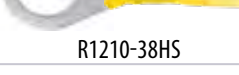
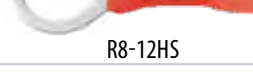
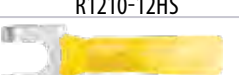
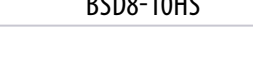
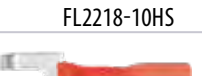
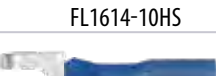
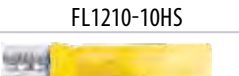
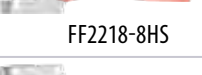
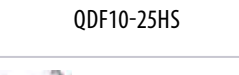
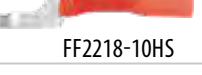
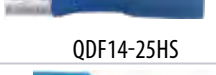
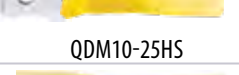
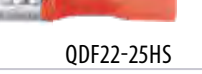
12-10
GA

B1210ELHS

FOR SOLDER
SHRINK KITS
SEE PAGE 15

CRIMP & HEAT (STANDARD/WITH INNER-SEALANT) POLY OLEFIN

Basic terminal bonded with silver brazing alloy. Will not open under stress. Adhesive wall heat shrink.
Operating temperature : -67° to 257° F. Rated to 600 volts."

22-18 GAUGE		16-14 GAUGE		12-10 GAUGE		8 GAUGE	
STUD SIZE	IES#	STUD SIZE	IES#	STUD SIZE	IES#	STUD SIZE	IES#
6	 R2218-6HS	6	 R1614-6HS	6	 R1210-6HS	8	 R8-8HS
8	 R2218-8HS	8	 R1614-8HS	8	 R1210-8HS	10	 R8-10HS
10	 R2218-10HS	10	 R1614-10HS	10	 R1210-10HS	1/4	 R8-14HS
1/4	 R2218-14HS	1/4	 R1614-14HS	1/4	 R1210-14HS	5/16	 R8-56HS
5/16	 R2218-56HS	5/16	 R1614-56HS	5/16	 R1210-56HS	3/8	 R8-38HS
3/8	 R2218-38HS	3/8	 R1614-38HS	3/8	 R1210-38HS	1/2	 R8-12HS
6	 FL2218-6HS	1/2	 R1614-12HS	1/2	 R1210-12HS	BUTT	 B8HS
8	 FL2218-8HS	8	 FL1614-8HS	10	 FF1210-10HS	STEP DOWN	 BSD8-10HS
10	 FL2218-10HS	10	 FL1614-10HS	10	 FL1210-10HS	24-20 GAUGE	
8	 FF2218-8HS	10	 FF1614-10HS	.250	 QDF10-25HS		
10	 FF2218-10HS	.250	 QDF14-25HS	.250	 QDM10-25HS	4	 R2420-4HS
.250	 QDF22-25HS	.250	 QDFM14-25HS	.250	 QDFF10-25HS	6	 R2420-6HS
.250	 QDFF-25HS	.250	 QDFF14-25HS	BUTT	 B1210HS	BUTT	 B2420HS
.250	 QDFM-25HS	BUTT	 B1614HS	STEP DOWN	 BSD10-14HS	STEP DOWN (24-20 GA)	 BSD24-20HS
BUTT	 B2218HS	STEP DOWN	 BSD22-14HS				

DID YOU KNOW?
IES is one of the
nations leading
electrical suppliers
to the marine
industry!





All USA made terminals and metal box

*Also available for XST heat shrink terminals

Also available with tools: RT22-10, SW26-10 (wire stripper), MJ-300 (torch).
Add "WTOL" to the end of IES#. EXAMPLE: "hskit-l-wtol"



HG-1100

Bench mount/Electric/Variable.
Powerful, 250 - 1100° F / 120 - 590° C 120v A/C 60 Hz 10 amp.



#MJ-300 (MICRO-JET)

The #1 Portable butane gun. Temp . Up to 1300° C / 2500° F (4"x2.5") 30 minutes of continuous flame.



#MJ-600

Portable butane FLAMELESS Heat gun (650c) (4"x2.5")



PT-500

Powerful stable butane flame. 1350° C (7" x 4.73") 200 minutes of non-stop burning.



SP-100

Solder and shrink butane tool. Solder tip: 250° - 500° C / Torch: 1300° C

KIT IES# HSKIT-M 13X9X2 - METAL BOX (630 Ct) Quantity	KIT IES# HSKIT-L 18X12X3 - METAL BOX (940 Ct) Quantity	IE NUMBER	TERMINAL TYPES
22-18 GAUGE			
35	60	R2218-6HS	#6 RING W/HEAT SHRINK
35	60	R2218-8HS	#8 RING W/HEAT SHRINK
35	60	R2218-10HS	#10 RING W/HEAT SHRINK
35	60	R2218-14HS	1/4" RING W/HEAT SHRINK
35	60	R2218-56HS	5/16" RING W/HEAT SHRINK
50	70	B2218HS	BUTT SPLICE W/HEAT SHRINK
16-14 GAUGE			
35	60	R1614-6HS	#6 RING W/HEAT SHRINK
35	60	R1614-8HS	#8 RING W/HEAT SHRINK
35	60	R1614-10HS	#10 RING W/HEAT SHRINK
35	60	R1614-14HS	1/4" RING W/HEAT SHRINK
35	60	R1614-56HS	5/16" RING W/HEAT SHRINK
35	60	FL1614-10HS	#10 SPADE-FORK W/HEAT SHRINK
15	35	QDFF14-25HS	FULLY INSULATED FEMALE W/HEAT SHRINK .250
15	35	QDFM14-25HS	FULLY INSULATED MALE W/HEAT SHRINK .250
50	70	B1614HS	BUTT SPLICE W/HEAT SHRINK
12-10 GAUGE			
30	50	R1210-10HS	#10 RING W/HEAT SHRINK
30	50	R1210-14HS	1/4 RING W/HEAT SHRINK
30	50	R1210-56HS	5/16 RING W/HEAT SHRINK
30	50	R1210-38HS	3/8 RING W/HEAT SHRINK
30	60	B1210HS	BUTT SPLICE W/HEAT SHRINK

* Also available with tools: RT22-10 (ratchet crimper), SW-2610 (wire stripper), MJ-300 (torch).
Add: "WTOL" to end of IE number. Example: HSKIT-L-TOL



#AT-2056

POCKET TURBO LITE (3"x1")
BUTANE TORCH (1300 c)



IES# RT8-6

Safely crimps 8-6 gauge insulated and heat shrink insulated



3-WAY SEALED BUTTS



Only waterproof 3-way in the industry
Sealed waterproof center
Multiple wire combinations
Manufactured exclusively by IES



26-24 GAUGE
B21-2624HS



22-18 GAUGE
B21-2218HS



16-14 GAUGE
B21-1614HS



12-10 GAUGE
B21-1210HS



STEP-DOWN 3-WAYS



22-18 GA / 22-18 GA / 16-14 GA
#B21SD-2214HS



16-14 GA / 16-14 GA / 22-18 GA
#B21SD-1422HS



16-14 GA / 16-14 GA / 12-10 GA
#B21SD-1014HS



IES# RT26-24
RATCHET-FULL CYCLE
26-14 GA NYLON & HEAT SHRINK TERMINALS
.08 LBS 9" LENGTH



IES# RT22-10
RATCHET-FULL CYCLE
22-10 GA NYLON & HEAT SHRINK TERMINALS
.08 LBS 9" LENGTH

**MOST
POPULAR**



IES# RT14-8
RATCHET-FULL CYCLE
14-8 GA NYLON & HEAT SHRINK TERMINALS
.08 LBS 9" LENGTH

HEAT SHRINK TERMINAL EMERGENCY KITS



IES# HSKIT-144
144 PC

Terminals and soft durable weather resistant box made in USA

INCLUDES:

(22-18 GA) BUTTS, #10 RINGS, (16-14) BUTTS, #10 SPADES
MALE & FEMALE QUICK DISC., RINGS: #10, 1/4, 5/16
(12-10) BUTTS, RINGS: #10, 1/4, 5/16, 3/8



IES# HSKIT155-TOL

155PC HEAT SHRINK TERMINAL KIT. (10-3/4" L X 6-1/2 W X 3/4 H NYLON BOX)
CONTAINS: (22-18 GA) BUTTS, #10 & 1/4" RINGS (16-14 GA) BUTTS, MALE &
FEMALE QUICK DISCONNECTS, #10 LOCKING SPADES, #10 & 1/4 RINGS (12-10GA)
BUTTS, #10, 1/4, 3/8 RINGS, 22-10 RATCHET FULL CYCLE CRIMP TOOL



IES# HSKIT270
270 PC

Terminals and soft durable weather resistant box made In USA

INCLUDES:

(22-18GA) BUTTS, RINGS: #6, #8, #10, 1/4
(16-14GA) BUTTS, #10 SPADES, MALE & FEMALE QUICK
DISCONNECTS, RINGS: #10, 1/4, 5/16
(12-10GA) BUTTS, RINGS: #10, 1/4, 5/16, 3/8
STEP-DOWN BUTTS 22 TO 14, 10 TO 14



IES# SBKIT-300

300 PC. SOLDER SLEEVE BUTT CONNECTOR KIT
(HEAT-SOLDER-SEAL) NO CRIMPING
CONTAINS : (70) 26-24GA, (100) 22-18GA,
(100) 16-14GA, (30) 12-10GA



24-20 GAUGE



	HEAT SHRINK (CLEAR)	3 PC NYLON	NON INSULATED (BRAZED)
4	R2420-4HS	R2420-4VN	R2420-4
6	R2420-6HS	R2420-6VN	R2420-6
8	R420-8HS	R2420-8VN	R2420-8
10	R2420-10HS	R2420-10VN	R2420-10

24-20 GAUGE SPADE



	NYLON	NON-INSULATED	NON-INSULATED (BRAZED)
6	F2420-6N	F2420-6	R2420-4
8	F2420-8N	F2420-8	R2420-6
10	F2420-10N	F2420-10	R2420-8

MULTI-STUD RINGS



6-8-10 Studs

GAUGE	NYLON	HEAT SHRINK
22-18	R2218-6810VN	R2218-6810HS
16-14	R1614-6810VN	R1614-6810HS
12-10	R1210-6810VN	R1210-6810HS

FULLY INSULATED PIGGYBACKS (3 PC NYLON)



WIRE SIZE	WIDTH	IES#
22-18	.250X.032	PBF22-25N
16-14	.250X.032	PBF14-25N

STAR RINGS (PVC INSULATED)



WIRE SIZE	STUD	IES#
22-18	6	S2218-6P
22-18	8	S2218-8P
16-14	6	S1614-6P
16-14	8	S1614-8P

PARALLEL BUTT SPLICES



GA	NON-INSULATED	NYLON	HEAT SHRINK
22-18	P2218	P2218N	P2218HS
16-14	P1614	P1614N	P1614HS
12-10	P1210	P1210N	P1210HS
8	P8	P8N	P8HS
6	P6	P6N	P6HS

WAGO LEVER
CONNECTORS

222 SERIES /28-12 GA

IES#	PORTS
222-412	2
222-413	3
222-414	4
222-415	5

WIRE STRIPPING TOOLS

BEST
SELLER

UNIVERSAL WIRE STRIP TOOL

With cutting and crimping

SW-2610



FRONT WIRE STRIPPER

Universal strip tool w/cutter.
24-10 GA

FSW24-10



WIRE STRIPPING TOOLS

24-10 "gun style" universal front
wire stripper - 24-30 GA

WSA-1024





Non-insulated terminals made of steel. Nickel plated. 900 deg f (482c)

RINGS



GAUGE	STUD	IES#
22-18	6	R2218-6HT
22-18	8	R2218-8HT
22-18	10	R2218-10HT
22-18	1/4"	R2218-14HT
22-18	5/16"	R2218-56HT
22-18	3/8"	R2218-38HT
16-14	6	R1614-6HT
16-14	8	R1614-8HT
16-14	10	R1614-10HT
16-14	1/4"	R1614-14HT
16-14	5/16"	R1614-56HT
16-14	3/8"	R1614-38HT
12-10	10	R1210-10HT
12-10	1/4"	R1210-14HT
12-10	5/16"	R1210-56HT
12-10	3/8"	R1210-38HT
8	10	R8-10HT
8	1/4"	R8-14HT
8	5/16"	R8-56HT
8	3/8"	R8-38HT
6	#10	R6-10HT
6	1/4"	R6-14HT
6	3/8"	R6-38HT
4	3/8"	R4-38HT

PORCELAIN WIRE NUTS (HIGH TEMP)

Temperatures over 150° C. 300 volt max.



IES#	WIRE RANGE
HT-1	2#16, 4 #18
HT-5	3#16, 4#18
HT-7	2#14, 4#16
HT-8	3#14, 2#12

BUTT



GAUGE	IES#
22-18	B2218HT
16-14	B1614HT
12-10	B1210HT

SPADES



GAUGE	STUD	IES#
22-18	6	F2218-6HT
22-18	8	F2218-8HT
22-18	10	F2218-10HT
16-14	6	F1614-6HT
16-14	8	F1614-8HT
16-14	10	F1614-10HT
12-10	6	F1210-6HT
12-10	8	F1210-8HT
12-10	10	F1210-10HT

BLOCK SPADES



GAUGE	STUD	IES#
16-14	10	FB1614-10HT
12-10	10	FB1210-10HT

QUICK DISCONNECTS (FEMALE)



GAUGE	WIDTH	IES#
22-18	.250X.032	QDF22-25HT
16-14	.187X.020	QDF14-18HT
16-14	.250X.032	QDF14-25HT
12-10	.250X.032	QDF10-25HT

QUICK DISCONNECTS (MALE)



GAUGE	WIDTH	IES#
22-18	.250X032	QDM22-25HT
16-14	.250X032	QDM14-25HT
12-10	.250X032	QDM10-25HT

FLAGS (FEMALE/RIGHT ANGLE)



GAUGE	WIDTH	IES#
16-14	.250X032	QDFG14-25HT
22-18	.250X.032	QDFG10-25HT

BULLET (MALE)



GAUGE	WIDTH	IES#
16-14	0.157	BCM14-57HT



IES# RT228NI

Ratchet, full-cycle 22-10 gauge, non-insulated

TEST CLIP

IES#	LENGTH	INSULATORS IES# (BLK OR RED)
60	2"	62
45	1.5"	42
25	3"	26

Popular test clips shown. Larger line available. Contact us with your specifications.



TERMINAL BLOCKS

Available with push tabs. Molded of general purpose Bakelite black. Heat resistant to 290° F. UL

SERIES/IES#	RATING	SCREW SIZE
TB100*	15 AMP	6-32
TB200*	20 AMP	6-32
TB300*	30 AMP	8-32

*Add number of gangs after the IES#. (example TB200-4 = 4 gang)

JUMPER TERMINAL

IES#	SERIES
300-JS	100
330-JS	200
350-JS	300



CLOSED RING JUMPER

IES#	SERIES
300-JR	100
320-JR	200
330-JR	300

STUD-TYPE JUNCTION BLOCK

600v 30 amp 10-24 Studs - 3/4" SPACED

IES#	GANG	LENGTH	MOUNT HOLE SPACING
STJB-4	4	4.5	3 3/4
STJB-6	6	6	5 1/4
STJB-8	8	7.5	6 3/4



DIVISIBLE (EURO) TERMINAL BLOCKS

12 Screw

IES#	AMP	VOLT
TBE20-12	20	300
TBE30-12	30	300
TBE40-12	40	600

Can be cut to specific requirements. High Quality and cost saving. Made of 6/6 nylon with stainless steel plate that releases over wire. Durable, Flame resistant up to 212° F, 600v, UL, CSA

QUICK TAPS

IES#	RANGE	COLOR
TC-905	22-18	RED
TC-564	18-14	WHITE
TC-801	16-14	BLUE
TC-804*	16-14	BLUE
TC-903	12-10	YELLOW
TC-902	10-08	BROWN

* Silicone gel filled



T-TAPS (.250)

IES#	RANGE	COLOR
TC-950	26-22	BLACK
TC-951	22-18	RED
TC-952	16-14	BLUE
TC-953	12-10	YELLOW



Used with male quick disconnects see page 9.

PIGTAIL CONNECTORS

COMMUNICATION (IDC)



22-14 GA

TC-314 (WITH SEALANT)

TC-314U (WITHOUT SEALANT)



TC-UR (19-26 GA)



TC-UY (22-26 GA)



WIRE MARKER TAPE DISPENSER

IES#	DESCRIPTION
STD	Dispenser only. Holds 10 rolls
STD-0-9	Dispenser filled with 10 rolls of numbered tape (One each of 0-9)
STD-C	Dispenser filled with 10 rolls each of colored tape. (One each of black, blue, brown, green, gray, orange, red, violet, white and yellow)





END CAPS (NYLON INSULATED)

GAUGE	COPPER INSERT (STANDARD)	ALUMINUM INSERT
22-14	CC18N	CC18N-A
18-14	CC14N	CC14N-A
18-10	CC10N	CC10N-A
18-8	CC8N	CC8N-A



HEAT-SHRINK INSULATED END CAPS

GAUGE	NYLON W/HEAT-SHRINK
22-14	CC18HS
18-14	CC14HS
18-10	CC10HS
18-8	CC8HS



NON-INSULATED END CAPS

GAUGE	COPPER	BRASS
22-18	CCNI-2218	CCNIB-2218
14-8	CCNI-148	CCNIB-148

WIRE NUTS (STANDARD)



WN-GRY	1#20 W/ 1#22	2#16
WN-BLU	3#20	3#16
WN-ORG	3#20	3#16 W/ 1#18
WN-YEL	1#14 W/ 1#18	4#14 W/ 1#18
WN-RED	2#14	2#16 W/ 2#14
WN-L-GRY	3#12	4#10

WINGED WIRE NUTS



WNW-GRY
WNW-BLU
WNW-ORG
WNW-YEL
WNW-RED



DRY CONN AQUA/RED IES# 62225 (WATERPROOF) 22-8 GAUGE

For connections exposed to condensation, water, vapor, or dust.

PORCELAIN WIRE NUTS (HIGH TEMP)

Temperatures over 150° C . 300 volt max.



IES#	WIRE RANGE
HT-1	2#16, 4#18
HT-5	3#16, 4#18
HT-7	2#14, 4#16
HT-8	3#14, 2#12

COLOR CRIMP CAPS

CC22-R (22-18)	
CC14-B (22-14)	
CC10-Y (22-10)	

PERFORMANCE PLUS CONNECTORS

22-12 GA	#PPC22-12
18-8 GA	#PPC18-8
14-8 GA	#PPC14-8



END CAP KIT

190 PC ECK-190

PART #	QTY
CC18N	100 PC
CC14N	80 PC
CC10N	20 PC
CC8N	10PC

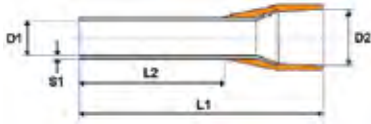


WIRE NUT KIT

350 PC #WNK-350

COLOR	QTY
GREY	100
BLUE	100
ORANGE	70
YELLOW	50
RED	30

IE Ferrules can be placed or crimped over the end of a wire strand, adding stability to the strand conductor end and assuring that no damage will occur to the wire strands, especially if it will be repeatedly inserted and reinserted into screw type terminal blocks. Color coded pre-insulated ferrules also aid in wire size identification.



NON-INSULATED FERRULES

DN46228, IE 1, 0, 5-50mm/2, Material:
Copper Surface: Tin Plated, S.L. = Stripping Length

DIMENSIONS

IE NUMBER	AWG IN. (MM)	SL IN. (MM)	LI IN. (MM)	D1 IN. (MM)
WF2232	22 (0.50)	0.32 (8.00)	0.55 (14.00)	0.05 (1.30)
WF2039	20 (0.75)	0.39 (10.00)	0.65 (16.40)	0.06 (1.50)
WF1839	18 (1.00)	0.39 (10.00)	0.65 (16.40)	0.07 (1.80)
WF1639	16 (1.50)	0.39 (10.00)	0.65 (16.40)	0.08 (2.00)
WF1439	14 (2.50)	0.39 (10.00)	0.67 (17.00)	0.10 (2.60)



TWIN INSULATED FERRULES

SL = Stripping Length

DIMENSIONS IN. (MM)

IES#	AWG	SL	LI	L2	D1	D2
WF1832RE-D	2 # 18	0.32 (8.00)	0.50 (15.00)	0.32 (8.00)	0.70 (1.80)	0.11/0.19 (2.8/5.0)
WF1632BK-D	2 # 16	0.32 (8.00)	0.61 (16.00)	0.32 (8.00)	0.09 (2.30)	0.14/0.25 (3.6/6.6)
WF1439BL-D	2 # 14	0.39 (10.00)	0.72 (18.50)	0.39 (10.00)	0.11 (2.90)	0.16/0.31 (4.2/7.8)
WF1247GY-D	2 # 12	0.47 (12.00)	0.86 (23.00)	0.47 (12.00)	0.15 (3.80)	0.19/0.34 (4.9/8.8)



WIRE FERRULE KIT (1800 PC) IES# KBM-009

GAUGE	QTY
22	500
20	400
18	350
16	300
14	100
12	70
10	50
7	30



UNIVERSAL FERRULE CRIMPER FC-34

INSULATED FERRULES

S.L. = Stripping Length

DIMENSIONS

	IE NUMBER	AWG IN. (MM)	SL IN. (MM)	LI IN. (MM)	L2 IN. (MM)	D1 IN. (MM)	D2 IN. (MM)	COLOR (ALT. COLOR)
	WF2424LB	24 (0.25)	0.24 (32.00)	0.39 (10.40)	0.24 (6.00)	0.43 (11.00)	0.098 (2.50)	LT. BLUE (YELLOW)
	WF2224OR	22 (0.50)	0.24 (6.00)	0.47 (12.00)	0.24 (6.00)	0.05 (1.30)	0.14 (3.60)	ORANGE (WHITE)
	WF2232OR	22 (0.50)	0.32 (8.00)	0.55 (14.00)	0.32 (8.00)	0.05 (1.30)	0.14 (3.60)	ORANGE (WHITE)
	WF2239OR	22 (0.50)	0.39 (10.00)	0.63 (16.00)	0.39 (10.00)	0.05 (1.30)	0.14 (3.60)	ORANGE (WHITE)
	WF2024WH	20 (0.75)	0.24 (6.00)	0.49 (12.40)	0.24 (6.00)	0.06 (1.50)	0.16 (4.00)	WHITE (BLUE)
	WF2032WH	20 (0.75)	0.32 (8.00)	0.57 (14.40)	0.32 (8.00)	0.06 (1.50)	0.16 (4.00)	WHITE (BLUE)
	WF2039WH	20 (0.75)	0.39 (10.00)	0.65 (16.40)	0.39 (10.00)	0.06 (1.50)	0.16 (4.00)	WHITE (BLUE)
	WF2047WH	20 (0.75)	0.47 (12.00)	0.72 (18.40)	0.47 (12.00)	0.06 (1.50)	0.16 (4.00)	WHITE (BLUE)
	WF1824YE	18 (1.00)	0.24 (6.00)	0.49 (12.40)	0.24 (6.00)	0.07 (1.80)	0.16 (4.10)	YELLOW (RED)
	WF1832YE	18 (1.00)	0.32 (8.00)	0.57 (14.40)	0.32 (8.00)	0.07 (1.80)	0.16 (4.10)	YELLOW (RED)
	WF1839YE	18 (1.00)	0.39 (10.00)	0.65 (16.40)	0.39 (10.00)	0.07 (1.80)	0.16 (4.10)	YELLOW (RED)
	WF1847YE	18 (1.00)	0.47 (12.00)	0.72 (18.40)	0.47 (12.00)	0.07 (1.80)	0.16 (4.10)	YELLOW (RED)
	WF1632RE	16 (1.50)	0.32 (8.00)	0.57 (14.40)	0.32 (8.00)	0.08 (2.00)	0.18 (4.60)	RED (BLACK)
	WF1639RE	16 (1.50)	0.39 (10.00)	0.65 (16.40)	0.39 (10.00)	0.08 (2.00)	0.18 (4.60)	RED (BLACK)
	WF1647RE	16 (1.50)	0.47 (12.00)	0.72 (18.40)	0.47 (12.00)	0.08 (2.00)	0.18 (4.60)	RED (BLACK)
	WF1432BL	14 (2.50)	0.32 (8.00)	0.59 (15.00)	0.32 (8.00)	0.10 (2.60)	0.20 (5.20)	BLUE (GREY)
	WF1439BL	14 (2.50)	0.39 (10.00)	0.67 (17.00)	0.39 (10.00)	0.10 (2.60)	0.20 (5.20)	BLUE (GREY)
	WF1447BL	14 (2.50)	0.47 (12.00)	0.75 (19.00)	0.47 (12.00)	0.10 (2.60)	0.20 (5.20)	BLUE (GREY)
	WF1239GY	12 (4.00)	0.39 (10.00)	0.69 (17.50)	0.39 (10.00)	0.13 (3.20)	0.23 (5.80)	GREY (ORANGE)
	WF1247GY	12 (4.00)	0.47 (12.00)	0.77 (19.50)	0.47 (12.00)	0.13 (3.20)	0.23 (5.80)	GREY (ORANGE)
	WF1271GY	12 (4.00)	0.71 (18.00)	1.00 (25.50)	0.71 (18.00)	0.13 (3.20)	0.23 (5.80)	GREY (ORANGE)
	WF1047BK	10 (6.00)	0.47 (12.00)	0.79 (20.00)	0.47 (12.00)	0.15 (3.90)	0.27 (6.90)	BLACK (GREEN)
	WF1071BK	10 (6.00)	0.71 (18.00)	1.02 (26.00)	0.71 (18.00)	0.15 (3.90)	0.27 (6.90)	BLACK (GREEN)
	WF0847IV	8 (10.00)	0.47 (12.00)	0.85 (21.50)	0.47 (12.00)	0.19 (4.90)	0.33 (8.40)	IVORY (BROWN)
	WF0871IV	8 (10.00)	0.71 (18.00)	1.08 (27.50)	0.71 (18.00)	0.19 (4.90)	0.33 (8.40)	IVORY (BROWN)
	WF0647GN	6 (16.00)	0.47 (12.00)	0.87 (22.20)	0.47 (12.00)	0.24 (6.20)	0.38 (9.60)	GREEN (IVORY)
	WF0671GN	6 (16.00)	0.71 (18.00)	1.11 (28.20)	0.71 (18.00)	0.24 (6.20)	0.38 (9.60)	GREEN (IVORY)
	WF0463BR	4 (25.00)	0.63 (16.00)	1.14 (29.00)	0.63 (16.00)	0.30 (7.70)	0.47 (12.00)	BROWN (BLACK)
	WF0487BR	4 (25.00)	0.87 (22.00)	1.38 (35.00)	0.87 (22.00)	0.38 (7.70)	0.47 (12.00)	BROWN (BLACK)
	WF0263BE	2 (35.00)	0.63 (16.00)	1.18 (30.00)	0.63 (16.00)	0.34 (8.70)	0.53 (13.50)	BEIGE (RED)
	WF0298BE	2 (35.00)	0.98 (25.00)	1.51 (39.00)	0.98 (25.00)	0.34 (8.70)	0.53 (13.50)	BEIGE (RED)
	WF0179OL	1 (50.00)	0.79 (20.00)	1.42 (36.00)	0.79 (20.00)	0.43 (10.90)	0.63 (16.00)	OLIVE (BLUE)
	WF0198OL	1 (50.00)	0.98 (25.00)	1.58 (40.00)	0.98 (25.00)	0.43 (10.90)	0.63 (16.00)	OLIVE (BLUE)

Available on strip or chain for high volume use. VDE, DIN approved.

DT SERIES

RECEPTACLES



PLUGS



RECEPTACLES	IES#	CAVITIES	COLOR	WEDGELOCK # (REQUIRED)	MATE (PLUG)
A	DT04-2P	2	GRAY	W2P	DT06-2S
B	DT04-3P	3	GRAY	W3P	DT06-3S
C	DT04-4P	4	GRAY	W4P	DT06-4S
D	DT04-6P	6	GRAY	W6P	DT06-6S
E	DT06-08PA	8	GRAY	W8P	DT06-08SA
F	DT06-12PA	12	GRAY	W12P	DT06-12SA

PLUGS	IES#	CAVITIES	COLOR	WEDGELOCK # (REQUIRED)	MATE (PLUG)
A	DT06-2S	2	GRAY	W2S	DT04-2P
B	DT06-3S	3	GRAY	W3S	DT04-3P
C	DT06-4S	4	GRAY	W4S	DT04-4P
D	DT06-6S	6	GRAY	W6S	DT06-6P
E	DT06-08SA	8	GRAY	W8S	DT06-08PA
F	DT06-12SA	12	GRAY	W12S	DT06-12PA



WEDGELOCK (RECEPTACLE)



WEDGELOCK (PLUG)



REMOVAL TOOL
0411-310-1605



SEALING PLUG
#114017

RECEPTACLE TERMINALS

IES#	WIRE RANGE
0462-201-20141	20 GA.
0462-201-16141	18-16 GA.
0462-209-16141	16-14 GA.
0462-203-12141	12 GA.

PLUG (PIN) TERMINALS

IES#	WIRE RANGE	REMOVAL TOOL
0460-202-20141	20 GA.	0411-240-2005
0460-202-16141	18-16 GA.	0411-310-1605
0460-215-16141	16-14 GA.	0411-291-1405
0460-204-12141	12 GA.	11401

BEST
SELLER!



DT SERIES (DEUTSCH) SERVICE KIT

Rugged 12x18x3 metal box
IES# DT-AST-L

HDT-48 ratchet tool sold separately

HOUSINGS	WEDGELOCKS	TERMINALS
(12) DT04-2P	(30) W2P	(50) 0462-201-20141
(12) DT06-2S	(30) W2S	(50) 0460-202-20141
(10) DT04-3P	(25) W3P	(50) 0462-201-16141
(10) DT06-3S	(25) W3S	(50) 0460-202-16141
(12) DT04-4P	(30) W4P	(50) 0462-201-16141
(12) DT06-4S	(30) W4S	(50) 0460-202-16141
(10) DT06-6P	-	(50) 0460-215-16141
(10) DT04-6S	-	(50) 0462-209-16141

REMOVAL TOOLS

(2) 0411-240-2005	(2) 0411-310-1605	(2) 0411-291-1405
-------------------	-------------------	-------------------



HDT-48

RATCHET 20-10 GA

HDT-1561

FIELD SERVICE TOOL

HDT-48-E

CLOSED BARREL



DEUTSCH DTM SERIES



RECEPTACLE (HOUSING)

IES#	CAVITIES	COLOR	WEDGELOCK	MATE (SOCKET)
DTM04-2P	2	GREY	WM-2P	DTM06-2S
DTM04-3P	3	GREY	WM-3P	DTM06-3S
DTM04-4P	4	GREY	WM-4P	DTM06-4S
DTM04-6P	6	GREY	WM-6P	DTM06-6S
DTM04-08PA	8	GREY	WM-8P	DTM06-08SA
DTM04-12PA	12	GREY	WM-12P	DTM06-12SA



SOCKET/PLUG (HOUSING)

IES#	CAVITIES	COLOR	WEDGELOCK	MATE (SOCKET)
DTM06-2S	2	GREY	WM-2S	DTM04-2P
DTM06-3S	3	GREY	WM-3S	DTM04-3P
DTM06-4S	4	GREY	WM-4S	DTM04-4P
DTM06-6S	6	GREY	WM-6S	DTM04-6P
DTM06-08SA	8	GREY	WM-8S	DTM04-8PA
DTM06-12SA	12	GREY	WM-12S	DTM06-12PA



PIN-RECEPTACLE TERMINALS

IES#	WIRE GAUGE	PLATED
0460-201-20141	20	NICKEL
0460-202-20141	20	GOLD
0460-010-20141	16-18	NICKEL
0460-010-2031	16-18	GOLD



SOCKET TERMINALS

IES#	GAUGE	PLATED
0462-202-20141	20	NICKEL
0462-201-20141	20	GOLD
0462-005-20141	16-18	NICKEL
0462-005-2031	16-18	GOLD

**BEST
SELLER!**



IES# DTM-KT

740 PIECE KIT CONTAINS 2, 3, 4 AND 6-WAY HOUSINGS, SOCKET HOUSINGS, WEDGELOCKS, AND 20 & 16-18 GAUGE TERMINALS



SEALING PLUG
PART #0413-204-2005
(20 GAUGE)



DEUTSCH 3-IN-1 REMOVAL TOOL
PART# 59600
(22- 12 GA PINS)



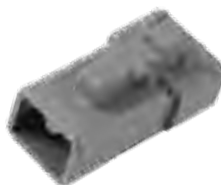
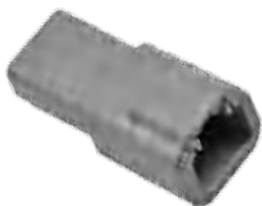
#DT-RT1
REMOVAL TOOL



#HDT-1561
SINGLE INDENT FIELD SERVICE
CRIMPER 12-16-20 GAUGE



DTP SERIES: 12-14 AWG



FEMALE (HOUSING)

IES#	CAVITIES	WEDGELOCK	MATE SOCKET
DTP04-2P	2	WP-2P	DTP06-2S
DTP04-4P	4	WP-4P	DTP06-4S

MALE (HOUSING)

IES#	CAVITIES	WEDGELOCK	MATE SOCKET
DTP06-2S	2	WP-2S	DTP04-2P
DTP06-4S	4	WP-4S	DTP04-4P



MOUNTING CLIP

IES#	OD
1011-026-0205	(.200" OD)
1011-030-0205	(.250" OD)



12-14 MALE PIN TERMINALS

IES#	PLATED
0460-204-12141	NICKEL
0460-220-1231	GOLD



12-14 FEMALE TERMINALS

IES#	PLATED
0462-203-12141	NICKEL
0462-210-1231	GOLD



#DT-RT1
REMOVAL TOOL

DTHD SERIES: INDUSTRIAL DT FAMILY



SEALING PLUG
#114017



FEMALE (HOUSING)

IES#	GAUGE	REMOVAL TOOL
DTHD04-1-4P	4-6	DTHDRT-4
DTHD04-1-8P	8-10	DTHDRT-8
DTHD04-1-12P	12-14	DTHDRT-12

MALE (HOUSING)

IES#	GAUGE	REMOVAL TOOL
DTHD06-1-4S	4-6	DTHDRT-4
DTHD06-1-8S	8-10	DTHDRT-8
DTHD06-1-12S	12-14	DTHDRT-12



MALE TERMINALS

IES#	CAVITIES	PLATED
0460-204-12141	12-14	NICKEL
0460-220-1231	12-14	GOLD
0460-204-08141	8-10	NICKEL
0460-204-0490	4-6	NICKEL



FEMALE TERMINALS

IES#	CAVITIES	PLATED
0462-203-12141	12-14	NICKEL
0462-210-1231	12-14	GOLD
0462-203-08141	8-10	NICKEL
0462-203-04141	4-6	NICKEL



LIGHTED AT SERIES

Highly visible when connection made
Certain modifications avail in Deutsch as well

# OF CIRCUITS	PLUG	VOLTS	SPECIAL FEATURES	MODIFICATIONS
2	AT06-2S-LED1201	12	—	—
2	AT06-2S-LED12V01	12	CLEAR END CAP	STANDARD SEAL
2	AT06-2S-LED12VR1	12	CLEAR END CAP	REDUCED WIRE SEAL
2	AT06-2S-LED12V01-OMC	12	CLEAR BODY	STANDARD SEAL
2	AT06-2S - LED12VR1-OMC	12	CLEAR BODY	REDUCED WIRE SEAL
2	AT06-2S-LED2401	24	—	—
2	AT06-2S-LED24VR1	24	CLEAR END CAP	REDUCED WIRE SEAL
2	AT06-2S-LED24V01-OMC	24	CLEAR BODY-CLEAR END CAP	REDUCED WIRE SEAL
2	AT06-2S-LED24VR1-OMC	24	CLEAR BODY-CLEAR END CAP	REDUCED WIRE SEAL
2	AT06-2S-LED1224V	12&24	CLEAR END CAP	STANDARD SEAL
2	AT06-2S-LED1224VR	12&24	CLEAR END CAP	REDUCED WIRE SEAL
2	AT06-2S-LED1224V-OMC	12&24	CLEAR BODY	STANDARD SEAL
2	AT06-2S-LED1224VR-OMC	12&24	CLEAR BODY	REDUCED WIRE SEAL
2	AT06-2S-D1224V	12&24	NO LED -CLEAR END CAP	STANDARD SEAL
2	AT06-2S-D1224VR	12&24	NO LED -CLEAR END CAP	REDUCED WIRE SEAL

IES is recognized as a leading stocking North-American distributor for Deutsch!



DEUTSCH PRE-ASSEMBLED PIGTAILS

Standard: 6" & 12"

- Custom lengths made with quantity minimums
- Available for DT, DTM, and DTP series
- Available in 20, 18, 16, 14 gauges, standard black or white (other colors available w/qty min)
- Sold in male/female kits, 12 set minimum (6 & 6)
- Proudly assembled in enfield, Connecticut, USA

DEUTSCH SPECIALTY SERIES

IES proudly stocks all components for the following DEUTSCH series:



DRC SERIES



AEC SERIES



DTV SERIES



DRB SERIES

Contact IES or visit www.IndustryElectric.net with your specific needs

DEUTSCH PRE-MADE PACKET KITS



- Provides all component to make a proper connection
- Available in DTM, DTM & DTP series
- 10 pack minimum per parts

Contact IES or visit IndustryElectric.net with your Pre-Made Packet needs.



257 F (125 C), -67 F (-55 C), IP67

0413-204-2005
(20 GA SEALING PIN)

114017
(12-18 GA SEALING PIN)



**PANEL MOUNT APPLICATION
PANEL MOUNT HEX NUT**
IES# 2411-001-2405
(24 SHELL SIZE)



LOCKWASHER
IES# 2414-001-2486



PANEL MOUNT SEAL
IES# 16-04477
(24 SHELL SIZE)

HARSH ENVIRONMENT (HDP SERIES)

CONNECTOR BODIES

RECEPTICLE FOR MALE TERMINALS		PLUG FOR FEMALE TERMINALS		NUMBER OF CAVITIES	TERMINALS REQUIRED	SEAL COLOR
DEUTSCH #	DELPHI#	DEUTSCH#	DELPHI#			
HDP24-24-19PE	13697108	HDP26-24-19SE	13697109	19	13 OF 16, 6 OF 12	BLUE
HDP24-24-19PN	13698346	HDP-26-24-19SN	13698347	19	13 OF 16, 6 OF 12	ORANGE
HDP24-24-21PE	13697102	HDP26-24-21SE	13697103	21	17OF16, 4 OF 12	BLUE
HDP24-24-21PN	13698342	HDP26-24-21SN	13698341	21	17 OF 16, 4 OF 12	ORANGE
HDP24-24-23PE	13697104	HDP26-24-23SE	13697105	23	23 OF 16	BLUE
HDP24-24-23PN	13698342	HDP26-24-23PN	13698343	23	23 OF 16	ORANGE
HDP24-24-29PE	13698344	HDP26-24-29SE	13698345	29	6 OF 20, 19 OF 16, 4 OF 12	BLUE
HDP24-24-29PN	13698344	HDP26-24-29SN	13698345	29	6 OF 20, 19 OF 16, 4 OF 12	ORANGE
HDP24-24-31PE	13667925	HDP26-24-31-SE	-	31	31 OF 16	BLUE
HDP24-24-47PE	13653493	HDP26-24-47SE	13653492	47	42 OF 20, 5 OF 16	BLUE

HD 30 SERIES

1500v 13a



CIRCUITS

6 WAY
6 WAY
9 WAY
9 WAY

PLUG HOUSING STYLE

SEALED LOCKING RING /MILITARY
SMOOTH DIAGNOSTIC GRADE
SEALED LOCKING RING /MILITARY
SMOOTH DIAGNOSTIC GRADE

DEUTSCH #
HD16-6-12S-B010
HD16-6-12S
HD16-9-96S
HD17-9-1939S

RECEPTICLE HOUSING STYLE

SEALED MILITARY
-
-
SEALED MILITARY

DEUTSCH #
HD10-6-12P
-
-
HD-10-9-1939P



RECEPTACLE CAP - MILITARY STYLE

CIRCUITS	DEUTSCH #
6 WAY	HDC-16-6
9 WAY	HDC-16-9



12 AND 16 GA TERMINAL SEE PAGE 21-22
AMPHENOL EQUIVALENTS AVAILABLE (CONTACT IES)



**FEMALE TERMINALS**

IES#	GAUGE	TYPE
12020801-L	22	2
12089188-L	18-20	2
12124580-L	14-16	1
12124581-L	12	1

MALE TERMINALS

IES#	GAUGE	TYPE
12089307-L	22	2
12089040-L	18-20	2
12124582-L	14-16	1
12124587-L	12	1

CAVITY SEALS

IES#	COLOR	TYPE
15324983	RED	2
15324982	GREEN	1
15324980	GRAY	2
15324981	BLUE	2
12010300	CAVITY PLUG	—

CAVITY PLUG**WEATHER PACK CONNECTORS**

FEMALE TOWER			SHROUD RECEPTACLE MALE		
IES#	SUGGESTED MATE			IES#	SUGGESTED MATE
12015791	12010996		1-WAY		12010996
12015792	12010973		2-WAY		12010973
12015793	12010717		3-WAY		12010717
12015797	12010974		4-WAY		12010974
12015799	12010975		6-WAY		12010975

WEATHER PACK CRIMPING TOOLS

Designed for the positive crimping of weather pack terminals. Quality tools for long-lasting and dependable service. Ratchet assembly for perfect crimp every time.



IES#

12014254
12070947**RATCHET/FULL-CYCLE**HAND CRIMPER FOR 14-20 GA.
HAND CRIMPER FOR 12 GA.

Economy/Manual

IES#

1028CT*

MANUAL HAND TOOL

14-20 GA.



IES#

12014012*

DESCRIPTION

WEATHER PACK REMOVAL TOOL



IES#

12094429*

DESCRIPTION

NARROW PICK



12094430*

DESCRIPTION

WIDE PICK

* Indicates tools that come with WPC-KIT.

4 SQUARE HOUSINGSPART#
12015024
(MALE)PART#
12015798
(FEMALE)**5-WAY CIRCULAR HOUSINGS**PART#
12065158
(MALE)PART#
12034342
(FEMALE)**IES# WPC-KIT-L (CONTENTS)**

All you need to make a weather resistant connection. 1,180 pieces plus 4 tools. Rugged 12x18x3 metal box.

TERMINALS

FEMALE	MALE	GAUGE
12089188	12089040	18-20
12124580	12124582	14-16
12124581	12124587	12

SEALS

RED #12015899	GRAY #12010293
GREEN #12015323	BLUE #12015193

HOUSINGS

FEMALE	MALE
12015791	1-WAY
12015792	2-WAY
12015793	3-WAY
12015797	4-WAY
12015799	6-WAY

WPC-KIT includes one 1028CT (manual crimper), one 12014012 (removal tool), one 12094429 (narrow pick), one 12094430 (wide pick).

METRI-PAK 150 SERIES

APTIV • 16V DC • 14 A



CONNECTOR BODIES

	FEMALE	MALE
# OF CIRCUITS	IES#	IES#
2	12052641	12162000
3	12110293	12129615
4	12162144	12162102
6	12052848	12124107
8	12047983	12047931
10	12065425	12045808



TPA

# OF CIRCUITS	COLOR	IES#
2	BLACK	12052634
3	NATURAL	12052845
4	BLACK	12047948
6	GREY	12052850
8	BLACK	15324525
10	GRAY	12124264

CABLE SEALS

CABLE DIA.	WIRE	COLOR	IES#
1.60-2.15	20-18	WHITE	15324976
2.03-2.80	18-16	DARK RED	15324973



MALE TERMINAL

GAUGE	IES#
22-20	12077628
18-16	12045773



FEMALE TERMINAL

GAUGE	IES#
22-20	12084260
18-16	12048074



METRI-PAK 150 SERIES KIT

Contains all terminals, seals, plugs, locks, housings, removal tool for 2, 3, 4, 6 way connections

LARGE KIT

IES# MPK150-L (546 PC)

18" x 12" x 3" metal box, PVC insert, no tool

IES# MPK150-L-TOL (547 PC)

18" x 12" x 3" metal box, PVC insert, one manual crimp tool

MEDIUM KIT

IES# MPK150-M (284 PC)

13-3/8" x 9" x 2" metal box, PVC insert, no tool

IES# MPK150-M-TOL (285 PC)

13-3/8" x 9" x 2" metal box, PVC insert, one manual crimp tool



CAVITY PLUG

IES# 12059168



CPA

IES# 12020833



22-12GA RATCHET FULL CYCLE

IES# 3186



22-12 MANUAL CRIMP TOOL

IES# 1028CT



METRI-PACK 280 SERIES

APTIV • 16V DC • 30 AMP



FEMALE TERMINAL

IE #	GAUGE
12084201	22-18
12077411	20-18
12129493	14-16
12077413	12 10



MALE TERMINAL

IE #	GAUGE
12124977	22-18
12048159	20-18
12129497	14-16
12048254	12 10



CABLE SEALS

COLOR	IES#	GAUGE
RED	15324983	22-18
PURPLE	15324985	20-18
GREEN	15324982	18-16
GREY	15324980	14
BLUE	15324981	12-10



TPA FEMALE

#	IES#	COLORS
1	12065249	BLACK
2	15300014	BLUE
3	12034145	BLACK
4	15300016	BLACK
5	1532487	BLACK



TPA MALE

#	IE #	COLOR
1	12065249	BLACK
2	15300014	BLUE
3	15300015	NATURAL
4	15324063	BLUE
5	12084673	BLACK



CONNECTOR BODIES

FEMALE		MALE	
#CIRCUITS	IES#	# CIRCUITS	IES#
1	12065172	1	12065171
2	15320027	2	15300002
3	12040977	3	15300003
4	12129565	4	12129600
5	12084891	5	12186400



**BEST
SELLER!**



METRI-PACK 280 KIT

Contains all terminals, housings, seals, TPA, plugs, removal tool for 1, 2, 3, 4, way connections. Available with/without tool.

LARGE KIT

18"x12"x3" metal box, PVC insert

IES# MP280K-L (515 PC)

18"x12"x3" metal box, PVC insert, no tool

IES# MP280K-L-TOL (517 PC)

18" X 12X 3" metal box, PVC insert, manual crimp tool

MEDIUM KIT

IES# MP280K-M (274 PC)

13-3/8" x 9" x 2" metal box, PVC insert, no tool

IES#MP280K-M-TOL (275 PC)

13-3/8" x 9" x 2" metal box, PVC insert, manual crimp tool



CAVITY PLUG

IES# 12020300



REMOVAL TOOL

IES# 12094429



22-12GA RATCHET FULL CYCLE

IES# 3186



22-12 MANUAL CRIMP TOOL

IES# 1028CT

MX150 SEALED CONNECTORS

Environmentally sealed • Superior performance in submersed conditions
No additional wire seals or wedgelocks required

CONNECTOR BODIES

CIRCUIT LAYOUT	GAUGE	PLUG #	RECEPTACLE #
1X3	22-14	33481-0301	33471-3301
1X4	22-14	33481-0401	33471-0401
1X6	22-14	33481-0601	33471-0601
2X2	22-14	33482-4001	33472-4401
2X3	22-14	33482-3601	33472-4801
2X8	22-14	33482-8601	33472-1601
2X10	22-14	33482-2401	33472-2001



MX-150 TOOLS

GAUGE	TERMINAL	IES#
22-18	FEMALE	63811-6000
16-14	FEMALE	63811-5960
22-18	MALE	63811-2600
16-14	MALE	63811-2400



BLANK PLUGS

34345-0001



EXTRACTION TOOL

66813-1500

AMP-TYCO MATE-N-LOK SERIES

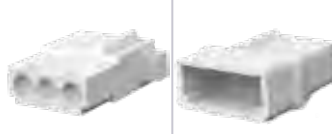
2 POSITION



#1-480319-0
(PLUG)

#1-480318-0
(SOCKET)

3 POSITION



#1-480303-0
(PLUG)

#1-480305-0
(SOCKET)

4 POSITION



#1-480424-0
(PLUG)

#1-480426-0
(SOCKET)

6 POSITION



#1-480704-0
(PLUG)

#1-480705-0
(SOCKET)

TERMINALS 20-18 GAUGE*



#61314-1
(PIN)

#61116-1
(SOCKET)

* Terminals sold loose piece or by reel

TOOLS



RATCHET FULL-CYCLE
PART# 64016-0204



MANUAL CRIMP TOOL
26-14 GA
PART# PA-21



REMOVAL TOOL
PART#465644-1

Industry Electric Nylon ties meet UL , CSA , ABYC , and Mil Spec/Govt as listed: SAE-AS23190 (exceeds tensile requirements), and SAE-AS33671 (Type 1 Class 2) IE offers exact Mil spec # on packaging, as well as Certification of Compliance if needed. IE nylon ties are USA MADE from 6/6 nylon .
Add "WHITE" for natural. Add "BLACK" for UV resistant black.



STANDARD TIE

IES#	MIN TENSILE UNLOCKING STRENGTH	MAX BUNDLE DIAMETER	APPX. LENGTH	APPX. WIDTH	PACKAGE COUNT
CT4-(ADD COLOR)	18 LBS	5/8"	3- 3/8"	.10"	100/ 500 / 1000
CT5-(ADD COLOR)	18 LBS	3/4"	5"	.10"	100/500 /10000
CT6-(ADD COLOR)	30 LBS	1- 1/4"	5- 1/4"	.10"	1000 PACK ONLY
CT7-(ADD COLOR)	50 LBS	2"	8"	.18"	100, 500, 1000
CT 11-(ADD COLOR)	50 LBS	3"	12-1/8"	.18"	100, 500
CT14-(ADD COLOR)	50 LBS	4"	15- 1/2"	.18"	100, 500

"SKINNY TIE" 18 LB

IES#	MIN TENSILE UNLOCKING STRENGTH	MAX BUNDLE DIAMETER	APPX. LENGTH	APPX. WIDTH	PACKAGE COUNT
CT7SCT-(ADD COLOR)	18 LBS	2"	8"		100, 500, 1000
CT11SCT-(ADD COLOR)	18 LBS	3"	12-1/8"		100, 500
CT14SCT-(ADD COLOR)	18 LBS	4"	15- 1/2"		100, 500

"NARROW TIE" 40 LB

IES#	MIN TENSILE UNLOCKING STRENGTH	MAX BUNDLE DIAMETER	APPX. LENGTH	APPX. WIDTH	PACKAGE COUNT
CT7N-(ADD COLOR)	40 LBS	2"	8- 1/2"	.150"	100, 500, 1000
CT11N-(ADD COLOR)	40 LBS	3"	12-1/8 "	.150"	100, 500
CT14N-(ADD COLOR)	40 LBS	4"	14-5/8"	.150"	100, 500

"HEAVY DUTY" TIE (WIDE)

IES#	MIN TENSILE UNLOCKING STRENGTH	MAX BUNDLE DIAMETER	APPX. LENGTH	APPX. WIDTH	PACKAGE COUNT
CT7HD-(ADD COLOR)	120 LBS	2"	8- 1/2"	.30"	100
CT11HD-(ADD COLOR)	120 LBS	3"	11- 3/8 "	.30"	100
CT14HD-(ADD COLOR)	120 LBS	4"	15- 1/4"	.30"	100
CT21XHD-(ADD COLOR)	175 LBS	6"	.21"	0.35	50
CT24XHD-(ADD COLOR)	175 LBS	7.0"	.24"	.35"	50
CT32XHS-(ADD COLOR)	175 LBS	9.0"	.32"	.35"	50
CT38XHD-(ADD COLOR)	175 LBS	10"	.38"	.35"	50
CT42XHD-(ADD COLOR)	175 LBS	.12"	.42"	.35"	50
CT48XHD-(ADD COLOR)	175 LBS	.15"	.48"	.35"	50



PANDUIT®
Dome top - metal (stainless)
barb Nylon 6/6

IES#	COLOR	LENGTH	WIDTH	TENSILE STRENGTH
CTMB4-WHT	NATURAL		0.095	18 LB
CTMB4-BLK	BLACK-UV		0.095	18 LB
CTMB7-WHT	NATURAL		0.185	50 LB
CTMB7-BLK	BLACK-UV		0.185	50 LB
CTMB12-WHT	NATURAL		0.185	50 LB
CTMB12-BLK	BLACK-UV		0.185	50 LB
CTMB11HD-WHT	NATURAL		0.27	120 LB
CTMB11HD-BLK	BLACK-UV		0.27	120 LB
CTMB14-WHT	NATURAL		0.185	50 LB
CTMB14-BLK	BLACK-UV		0.185	50 LB
CTMB14HD-WHT	NATURAL		0.27	120 LB
CTMB14HD-BLK	BLACK-UV		0.27	120 LB
CTMB21HD-WHT	NATURAL		0.27	120 LB
CTMB21HD-BLK	BLACK-UV		0.27	120 LB



PANDUIT®
LOW PROFILE- IN LINE complete
flush, Space saving. Safer (no cuts)

IES#	COLOR	WIDTH	TENSILE
CTLP7-WHT	NAT.	0.18	50 LB
CTLP7-BLK	BLK/UV	0.18	50 LB
CTLP14-WHT	NAT.	0.18	50 LB
CTLP14-BLK	BLK/UV	0.18	50 LB
CTLP14HD-W	NAT.	.30	120 LB
CTLP14HD-B	BLK-UV	.30	120 LB



MOUNTING HOLE CABLE TIE

IE's one piece design allows for securing and positioning wire bundles, cables, hoses, etc. to panels or other surfaces.

Add colors : white or black to ENUL, CSA, ROHS, ABYC.

IES#	LENGTH	STUD HOLE	BUNDLE DIAMETER	WIDTH	TENSILE STRENGTH
MNT4 - (ADD COLOR)	4-1/4"	#6	1/4"	.10"	18 LB
MNT7 - (ADD COLOR)	8"	#10	1- 3/4"	.177"	50 LB
MNT14 - (AD COLOR)	14.5"	#10	3"	.177	50 LB
MNT14HD - (ADD COLOR)	15.7"	1/4"	4"	.298	120 LB



RADIUS/MARINE CABLE TIE

Head mount flush around bundle for complete circumferential compression. Space saving. Available in UV Black only.

IES#	LENGTH	WIDTH	TENSILE STRENGTH
CTT20- BLK	4"	.09"	20 LB
CTT60- BLK	8"	.18"	60 LB
CTT15- BLK	15"	.35"	175LB



RELEASABLE TIE

For Temporary or permanent bundling.

Strap release latch allows easy use and reduces snags. ROHS

IES#	LENGTH	BUNDLE DIA.	WIDTH	TENSILE STRENGTH
RT5- (ADD COLOR)	5.90"	1.25"	.299"	50 LB
RT7 - (ADD COLOR)	7.874"	2"	.299	50 LB
RT14- (ADD COLOR)	14.56"	4"	.299"	50 LB



HALAR

UL Air Handling/ Plenum (NEC)
Low Smoke Density. High flame and
UV Resistance (UL94V-0)

IES#	LENGTH	TENSILE
CT-04-HR	4"	18 LB
CT-07-HR	7.4"	50 LB
CT-11-HR	11"	50 LB

ALL TIES AVAILABLE IN 100, 500 & 1,000 PACKS


DUAL LOOP CABLE TIE
 UV BLACK - 175 LB

LENGTH	IE #
13"	DLCT13-BLK
19.2"	DLCT19-BLK


BUTTON HEAD CABLE TIE
 UV BLACK - 50 LB

LENGTH	IE #
9.6	BHCT9-BLK


HIGH TEMP CABLE TIE

TEMP RATING -40 F (-40C) - 221F (105 C)

LENGTH	TENSILE	IES#
8"	50 LB	HSCT8-BLK
14"	50 LB	HSCT14-BLK
14" HD	120 LB	HSCT14HD-BLK


CABLE TIE KIT

CTK-700


COLOR CABLE TIES

100/1000 PACKS - 50 LB

7"	CT7 (ADD COLOR CODE)
14"	CT14 (ADD COLOR CODE)

EXAMPLE: RED USE PART # CT7-RE

 COLOR CODES: BL (BLUE), GR (GREEN),
 PR (PURPLE), GY (GREY), BE (BROWN), OE
 (ORANGE), RD (RED), YW (YELLOW)

 FLORESCENT CODES: FBL (BLUE), FGN (GREEN),
 FOE (ORANGE), FPK (PINK), FYN (YELLOW)

PLENUM CABLE TIES

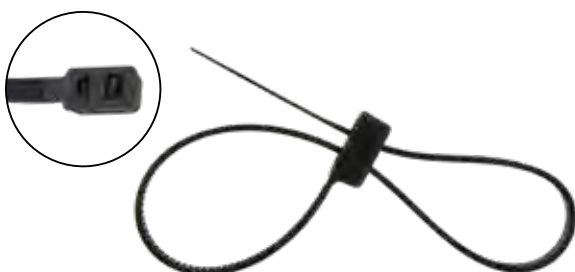
AIR HANDLING - UL2043

LENGTH	WIDTH	TENSILE	IES#
4.1	0.096	18	PLCT-4
7.6	0.54	50	PLCT-7
11.1	0.54	50	PLCT-11
14.6	0.54	50	PLCT-14
15 HD	0.298	0.298	PLCT-14HD


COLD WEATHER CABLE TIES

TEMP RATING -4F (-20C) BLACK /UV

LENGTH	WIDTH	TENSILE	IE #
7.6"	0.18	50	CWT7-BLK
11.1"	0.18	50	CWT11-BLK
14.6"	0.18	50	CWT14-BLK
15" HD	0.298	120	CWT14HD-BLK
24" HD	0.335	175	CWT24HD-BLK


DOUBLE HEAD CABLE TIES

50 LB TENSILE

LENGTH	NAT/WHITE	BLACK/UV
8.8"	CTDL8-WHT	CTDL8-BLK
14"	CTDL14-WHT	CTDL14-BLK

PUSH MOUNT CABLE TIES

Quick mount, one piece design securely attaches bundle to panel.
Packs of 100



IES#	LENGTH	WIDTH	TENSILE
CT7PM	8.5"	.18"	50LB.

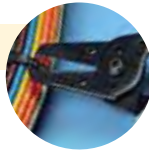
Push fits into 1/4" diameter opening. Standard color: Natural/White.
For UV/Black add: "Black" to end of IE number.

CABLE TIE GUNS**NT105S (18-50 CABLE TIE)**

Quickly tensions and cuts off excess.
Removes dangerous sharp edges.

**NT-108S (120-175 LB CABLE TIE)****CABLE TIE REMOVAL TOOL****IES# TR-1100**

Flush cut - rapidly remove ties without nicking and/or damaging wire. Saves time and money. (Tool length: 6.49")

**MAGNETIC WIRE MOUNTS**

Double Epoxy Coated

WTM-16	WTM-20	WTM-25	WTM-32
--------	--------	--------	--------

**IES# TMEH-SI-Q0**

Panduit #10 screw extra heavy base, 1.62"(l)x.72(w), available UV/black only.

FIR TREE TIES

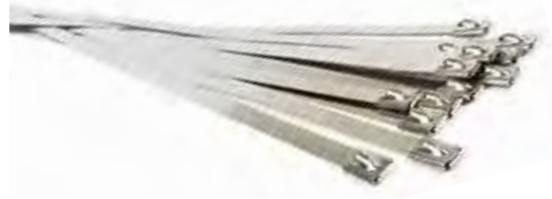
Packs of 100



IES#	LENGTH	WIDTH	TENSILE STRENGTH	COLOR
FT8-BLK	8.27"	.180"	50 LBS	BLK/UV

STAINLESS STEEL CABLE TIES

High tensile strength for harsh, corrosive environments. UL .ROHS Compliant.
Packs of 100



IES#	LENGTH	WIDTH	TENSILE STRENGTH
SS7CT	7.87"	181"	100 LB.
SS14CT	14.1"	181"	100 LB.
SS20CT	20.47"	181"	100 LB.

STAINLESS STEEL CABLE TIE GUN**NT-105-SS**

(Use with all stainless ties only)

CABLE TIE ANCHOR MOUNTS

Standard: White/ natural. For Black/UV, add: Black to end of IE number.



IES#	SCREW
CTAM-1	#8
CTAM-2	#10

SCREW MOUNTS

Standard: White/ natural. For Black/UV, add: Black to end of IE number.



IES#	SCREW	WIDTH	LENGTH	HEIGHT
SMB1-4	4	0.39	0.59	0.06
SMB1-6	6	0.37	0.59	0.06
SMB1-8	8	0.37	0.69	0.06
SMB3-10	10	0.63	0.87	0.12
SMB3-1/4	1/4"	0.64	0.87	0.12



**ADHESIVE BACKED
MOUNTING BASES****FOUR WAY**

IES#	MOUNTING
BMMA-4-WHT	1/2X1/2
BMMA-4-BLK	1/2X1/2
BMA-4-WHT	1X1
BMA-4-BLK	1X1
BMA-5-WHT	1.50X1.50
BMA-5-BLK	1.50X1.50

**LOW PROFILE SCREW MOUNT**

#8 Screw
#LPMS-S8-C (WHITE)

**PUSH NYLON MOUNT BASE**

(1/4")
PNMB-WHT (WHITE - NATURAL)
PNMB-BLK (BLACK)

THREADED NYLON MOUNT BASE

(1/4")
TNMB-WHT (WHITE - NATURAL)

**HEAVY DUTY SCREW MOUNTS (NYLON)**

120 - 175 LB TIES - UV-BLACK- 1/4" MOUNT
Maximum support for large & heavy bundles

IES#	TENSILE	LENGTH	HEIGHT	WIDTH
HDSM-120	120 LB	1.44	0.683	0.729
HDSM-175	175 LB	1.44	0.683	0.729

PUSH ON FRAME CLIPS

Push on wire clips are made of spring steel with a black enamel finish. Used to secure one or more wires to panel surfaces. Spring tension holds clamp in place.



FRC-S	SMALL BODY CLIPS
FRC-M	MEDIUM BODY CLIPS
FRC-L	LARGE BODY CLIPS

NYLON CLAMPS

3/8" wide 1 1/16" thick — 11/64" mounting hole



IES#	DIAMETER
C-1/8	1/8"
C-3/16	3/16"
C-1/4	1/4"
C-5/16	5/16"
C-3/8	3/8"
C-7/16	7/16"
C-1/2	1/2"

*Standard color: White/
Natural.

Also available in Black,
Add BLK to end of IES#.
Example: C-1/8 BLK.

WIDE NYLON CLAMPS

1/2" wide 1/16" thick — 13/64" mounting hole



IES#	DIAMETER
C-1/4W	1/4"
C-5/16W	5/16"
C-3/8W	3/8"
C-7/16W	7/16"
C-1/2W	1/2"
C-9/16W	9/16"
-5/8W	5/8"
C-11/16W	11/16"
C-3/4W	3/4"
C-7/8W	7/8"
C-1W	1"
C1-1/8W	1 1/8"
C1-1/4W	1 1/4"
C1-1/2W	1 1/2"

*Standard color: White/
Natural. For black add BLK
to end of IES#. Example:
C-1/4W BLK

VINYL INSULATED METAL CLAMPS

Heavy duty steel type nest, bolt size 1/4. Also available for 3/8 bolt (add 38 to end of part# example NES-1/4-38)



I.D.	1/2" WIDTH, 1/4" MOUNT	3/4" WIDTH, 3/8" MOUNT
1/4"	NES-1/4	NES-1/4-34
3/8"	NES-3/8	NES-3/8-34
1/2"	NES-1/2	NES-1/2-34
5/8"	NES-5/8	NES-5/8-34
3/4"	NES-3/4	NES-3/4-34
1"	NES-1	NES-1-34
1-1/4"	NES-1.25	NES-125-34
1-1/2"	NES-1.5	NES-1.5-34
2"	NES-2	NES-2-34
3"	NES-3	NES-3



Cable ties with
mounting hole
see page 24.





2 TUBE CUSHIONED CLAMP

Plated steel heavy duty
3/4" wide, .406 mounting

IE #	ID
NES2-1/2	1/2"
NES-2-3/4	3/4"
NES-2-1	1"
NES-2-1.25	1-1/4"



STAINLESS STEEL CLAMPS

1/2" wide .265 mounting
Neoprene cushion

IE #	ID
NESS-1/4	1/4"
NESS-3/8	3/8"
NESS-1/2	1/2"
NESS-5/8	5/8"
NESS-3/4	3/4"
NESS-7/8	7/8"
NESS-1	1"
NESS-1.1/8	1-1/8"
NESS-1.25	1-1/4"
NESS-1.50	1-1/2"
NESS-1.34	1-3/4"
NESS-2	2"
NESS-2.5	2-1/2"
NESS-3	3"



METAL CABLE CLAMP

Heavy-duty, corrosion resistant steel,
1/2", .204 mounting

IES#	ID
MCC-1/4	1/4"
MCC-5/16	5/16"
MCC-3/8	3/8"
MCC-1/2	1/2"
MCC-5/8	5/8"
MCC-3/4	3/4"
MCC-7/8	7/8"
MCC-1	1"



HOSE CLAMPS

General purpose - All Stainless
1/2" wide (micro 5/16")

PART#	SIZE	RANGE MIN-MAX
HCSS-MC4	MICRO 4	1/4 - 5/8"
HCSS-MC5	MICRO 5	7/16 - 11/16"
HCSS-MC8	MICRO8	7/16 - 1"
HCSS-8	8	7/16 - 1"
HCSS-10	10	9/16 - 1-1/16"
HCSS-12	12	9/16 - 1-1/4"
HCSS-16	16	11/16 - 1-1/2"
HCSS-20	20	3/4 - 1-3/4"
HCSS-24	24	1-1/16 - 2"
HCSS-28	28	1-5/16 - 2-1/4"
HCSS-32	32	1-9/16 - 2-1/2"
HCSS-36	36	1-13/16 - 2-3/4"
HCSS-40	40	2-1/16 - 3"
HCSS-44	44	2-5/16 - 3-1/4"
HCSS-48	48	2-9/16 - 3-1/2"
HCSS-56	56	3-1/6 - 4"
HCSS-64	64	2-1/2 - 4-1/2"



316 STAINLESS HOSE CLAMPS

PART#	SIZE	RANGE
AWSS-MC4	MICRO 4	1/4" - 5/8"
AWSS-MC6	MICRO 6	1/2"-13/16"
AWSS-8	8	7/16"-1"
AWSS-10	10	9/16"-1-1/16"
AWSS-12	12	9/16-1-1/4"
AWSS-16	16	11/16-1-1/2"
AWSS-20	20	3/4-1-3/4"
AWSS-24	24	1-1/6"-2"
AWSS-28	28	1-5/16"-2-1/4"
AWSS-32	32	1-9/16"-2-1/2"
AWSS-36	36	1-13/16"-2-3/4"
AWSS-40	40	2-1/16"-3"
AWSS-44	44	2-5/16"-3-1/4"
AWSS-48	48	2-9/16"-3-1/2"
AWSS-56	56	3-1/16-4"
AWSS-64	64	2-1/2"-4-1/2"



STEPLESS EAR CLAMPS

PART#	CLOSED	OPEN
16700004	7.8MM	9.5MM
16700007	9.6 MM	11.3MM
16700011	11.3 MM	13.0 MM
16700013	12 MM	14.5MM
16700016	13.2 MM	15.7 MM
16700017	14.5 MM	17.0 MM
16700020	15.3 MM	18.5 MM
16700024	17.8 MM	21.0MM
16700029	20.9 MM	24.1 MM
16700033	23.9 MM	27.1 MM
16700040	28.4 MM	31.6 MM
16700042	29.9 MM	33.1 MM



**STEPLESS EAR
CLAMP TOOL**
PART# 14100338



VINYL GROMMETS

STOCK NUMBER	(A) INSIDE DIA.	(B) PANEL THICKNESS	(C) OUTSIDE DIA.	(D) OVERALL HEIGHT	(E) MOUNTING HOLE DIAMETER
GV1/4	1/8	1/16	11/32	3/16	1/4
GV5/16	3/16	1/16	7/32	7/32	5/16
GV3/8	1/4	1/16	9/16	1/4	3/8
GV7/16	5/16	1/16	5/8	1/4	3/8
GV1/2	3/8	1/16	5/8	1/4	1/2
GV5/8	1/2	1/16	13/26	13/16	5/8
GV21/32	25/64	1/8	27/32	3/8	21/32
GV7/8	5/8	1/16	1 1/8	9/32	7/8
GV1	11/16	1/16	15/16	3/8	1



SNAP BUSHINGS

Industry Electric snap bushings are made of nylon and are used to convert a sharp metal-edged hole to a smooth and safe entry. Snap bushings assemble with fingertip pressure. 35 lbs. pull-back tested.

IES#	MOUNTING HOLE DIA.	INSIDE DIA.	HEAD DIA.	OVERALL HEIGHT	MAX PANEL THICKNESS
SB-1/4	.250	1/8	5/16	5/16	.062
SB-3/8	.375	1/4	15/32	13/32	.125
SB-5/16	.437	5/16	17/32	13/32	.125
SB-1/2	.500	3/8	37/64	13/32	.125
SB-5/8	.625	1/2	23/32	13/32	.125
SB-3/4	.750	5/8	27/32	13/32	.125
SB-7/8	.875	11/16	61/64	29/64	.125
SB-1	1.00	3/4	1 1/8	29/64	.125



LIQUID TIGHT HOLE PLUGS

Panels as thin as .020# (0.5 mm) , and a sthink as .250" (6.4 mm). Provides liquid tight closure

IE #	MOUNTING HOLE DIA.	CABLE DIA.	HEAD DIA.	OVERALL HEIGHT
LTHP-1/2	.500 (1/2")	.08-.20	0.92	0.63
LTHP-5/8	.625 (5/8")	.13-.38	1.03	0.63
LTHP-3/4	.750 (3/4")	.18-.40	1.1	0.63
LTHP-7/8	.875 (7/8")	.13-.45	1.28	0.63
LTHP-1.00	1.00 (1")	.26-.72	1.43	0.63
LTHP-1.38	1.373 (1-3/8")	.30-.95	1.8	0.67
LTHP-1.5	1.50 (1-1/2")	.38-1.0	1.93	0.67



LOCKING HOLE PLUGS

IES#	MOUNTING HOLE DIA.	HEAD DIA.	OVERALL HEIGHT	PANEL THICKNESS
LHP-1/4	.250 (1/4")	0.31	0.312	0.62
LHP-3/8	.375 (3/8")	0.47	0.406	0.125
LHP-1/2	.500 (1/2")	0.56	0.406	0.125
LHP-5/8	.625 (5/8")	0.72	0.406	0.125
LHP-3/4	.750 (3/4")	0.92	0.406	0.125
LHP-7/8	.875 (7/8")	1.02	0.453	0.125
LHP-1	1.00 (1")	1.2	0.453	0.125





TYPE GXL CROSS LINK PRIMARY

Colors: Black, Brown, Red, Orange, Yellow, Green, Light Green, Light-Blue, Blue, Violet, Gray, Purple, White, Tan, Pink.
Auto/marine Stranded Flexible Soft Annealed Copper. Resists: acid, oil, heat, moisture, abrasion. M: 1000 D: 500 ft, C: 100 ft

AUTOMOTIVE PRIMARY WIRE, XLP

IES#	SIZE AWG	NUMBER OF STRANDS	INSULATION THICKNESS MILS-NOM.
GXL 20	20	16/33	.029
GXL 18	18	16/30	.030
GXL 16	16	19/29	.032
GXL 14	14	19/27	.035
GXL 12	12	19/25	.037
GXL 10	10	19/25	.041
GXL 8	8	19/20	.037



For use in engine compartments where higher heat resistance is required according to SEA J-1128. Wide Temperature range from -51 to +125 C.
Available in solid colors. Also meets Ford (M1L-85A), and Chrysler (MS-5919) specs.. AVAILABLE STRIPED. Contact IE with your specifications.

BATTERY & WELDING CABLE



IES# (BATTERY)	IES# (WELDING)
WBC 6	WWC 6
WBC 4	WWC 4
WBC 2	WWC 2
WBC 1	WWC 1
WBC 1/0	WWC 1/0
WBC 2/0	WWC 2/0
WBC 3/0	WWC 3/0
WBC 4/0	WWC 4/0

Please specify RED or Black when ordering

PARALLEL PRIMARY WIRE



IES#	AWG	NO. OF CONDUCTORS	COLORS (STANDARD)*
WR18/2	18	2	RED/BLACK
WR18/4	18	4	BROWN, YELLOW, GREEN, WHITE
WR16/2	16	2	RED/BLACK
WR16/3	16	3	BROWN, YELLOW, GREEN
WR16/4	16	4	BROWN, YELLOW, GREEN, WHITE
WR14/2	14	2	RED/BLACK
WR14/3	14	3	BROWN, YELLOW, GREEN
WR14/4	14	4	BROWN, YELLOW, GREEN, WHITE
WR12/2	12	2	RED/BLACK
WR12/4	12	4	BROWN, YELLOW, GREEN, WHITE

* Other conductor color combinations available. Only popular conductors are shown. Please contact IE with your specifications.

TRAILER CABLE



IES#	DISC
WTC14/2	2#14
WTC14/4	4#14
WTC14/6	6#14
WTC14/7	7#14
WTC12/4	4#12
WTC12/6	6#12
WTC14/6-12/1	6#14, 1#12
WTC6/12-1/10	6#12, 1#10

SPEAKER WIRE

IES#	TYPE
WSPC22/2	.060 X .120
WSPC20/2	.070 X .140
WSPC18/2	.100 X .200
WSPC16/2	.150 X .300



"BLUE" EXTREME WEATHER TRAILER CABLE

(Stays flexible to -60 ft) 100/500 ft spools



IES#	GA/ COND	COLOR CODE
TC-B-14-6	14/6	BLK-WHT-BRN-GRN-RED-YLW
TC-B-14/7	14/7	BLK-WHT-BRN-GRN-RED-YLW-BLU

100/500/1000 FT ROLLS

ABS TRAILER CABLE (GREEN)



IES#	GA/COND	COLOR CODE
ABS-7	12/4-10/2-8/1	WHT-BRN-DK GRN-RED-YLW-BLK-BLU

100/500/1000 FT ROLLS

IES# SW-2610

26-10 gauge automatic strippers.



LAMP CORD



IES#	TYPE
WLC18/2	SPT-1
WLC16/2	SPT-2

Specify Color: Brown, Black, or White





100 & 500 ft rolls

500W PORTABLE CORD (600 V)

IES#	AWG SIZE	NO OF COND.	COND. STRAND.	JACKET THICKNESS	NOMINAL INSULATION	NOMINAL OD CABLE (THICKNESS)	AMPS	APPROX LBS/MFT
SO 18/2	18	2	16/30	0.03	0.06	0.345	10	70
SO 18/3	18	3	16/30	0.03	0.06	0.365	10	80
SO 18/4	18	4	16/30	0.03	0.06	0.39	7	95
SO 16/2	16	2	26/30	0.03	0.06	0.37	13	80
SO 16/3	16	3	26/30	0.03	0.06	0.39	13	95
SO 16/4	16	4	26/30	0.03	0.06	0.42	10	115
SO 14/2	14	2	41/30	0.045	0.075	0.51	18	135
SO 14/3	14	3	41/30	0.045	0.075	0.535	18	170
SO 14/4	14	4	41/30	0.045	0.075	0.575	15	210
SO 12/2	12	2	65/30	0.045	0.09	0.57	25	195
SO 12/3	12	3	65/30	0.045	0.09	0.595	25	225
SO 12/4	12	4	65/30	0.045	0.09	0.65	20	270
SO 10/2	10	2	104/30	0.045	0.09	0.62	30	250
SO 10/3	10	3	104/30	0.045	0.09	0.66	30	290
SO 10/4	10	4	104/30	0.045	0.09	0.715	25	355
SO 8/2	8	2	65/26	0.05	0.09	0.66	40	290
SO 8/3	8	3	65/26	0.05	0.09	0.72	40	365
SO 8/4	8	4	65/26	0.05	0.09	0.78	35	500
SO 8/5	8	5	65/26	0.05	0.09	0.86	28	545
SO 6/2	6	2	101/26	0.06	0.09	0.805	55	389
SO 6/3	6	3	101/26	0.05	0.125	0.8	55	515
SO 6/4	6	4	101/26	0.05	0.14	0.845	45	620
SO 6/5	6	5	101/26	0.05	0.14	0.945	36	750

INIFINITIFLEX (UL/CSA/MSHA)**CONDUCTOR**

- Bare, annealed copper (ASTM B-174)

INSULATION:

- EPDM synthetic rubber, 90° C

JACKET

- Chlorinated Polyethylene (CPE), black

CABLING

- Conductors are assembled round with fillers as needed

APPLICATIONS

- Designed for hard usage with; portable tools, portable appliances, small motors and associated machinery

FEATURES

- Water resistant
- Abrasion resistant
- Resists oils and solvents
- Good tensile strength, elongation and aging characteristics
- UL/CSA for indoor/outdoor use
- Temperature range: -40°C to +90°C



100 & 500 ft rolls

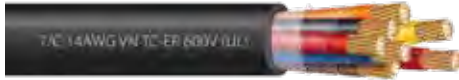
**COLOR CODE CHART
(2-5 CONDUCTORS)**

NO. OF COND.	COLOR
2	BLACK, WHITE
3	BLACK, WHITE, GREEN
4	BLACK, WHITE, RED, GREEN
5	BLACK, WHITE, RED, ORANGE, GREEN

Green conductor is used for grounding purposes only.

SJOOW PORTABLE CORD (300 V)

IES#	AWG SIZE	NO OF COND.	COND. STRAND.	JACKET THICKNESS	NOMINAL INSULATION	NOMINAL OD CABLE (THICKNESS)	AMPS	APPROX LBS/MFT
SJO 18/2	18	2	16/30	50	0.03	0.285	10	50
SJO 18/3	18	3	16/30	60	0.03	0.305	10	60
SJO 18/4	18	4	16/30	70	0.03	0.33	7	70
SJO 16/2	16	2	26/30	60	0.03	0.31	13	60
SJO 16/3	16	3	26/30	75	0.03	0.33	13	75
SJO 16/4	16	4	26/30	95	0.03	0.365	10	95
SJO 14/2	14	2	41/30	75	0.03	0.34	18	75
SJO 14/3	14	3	41/30	105	0.03	0.365	18	105
SJO 14/4	14	4	41/30	125	0.03	0.415	15	125
SJO 12/2	12	2	65/30	105	0.03	0.41	25	105
SJO 12/3	12	3	65/30	140	0.03	0.43	25	140
SJO 12/4	12	4	65/30	190	0.03	0.475	20	190
SJO 10/2	10	2	104/30	210	0.045	0.56	30	210
SJO 10/3	10	3	104/30	240	0.045	0.58	30	240
SJO 10/4	10	4	104/30	325	0.045	0.655	25	325



TRAY CABLE (TYPE TC - 600V)

- SHIELDED FOIL & UNSHIELDED
- Control & power applications
- Rugged jacketing for light & heavy industrial

GAUGE	COND	UNSHIELDED #	SHIELDED#
18	2	TRC18-2	TRC18-2-S
18	3	TRC18-3	TRC18-3-S
18	4	TRC18-4	TRC18-4-S
18	6	TRC18-6	TRC18-6-S
16	2	TRC16-2	TRC16-2-S
16	3	TRC16-3	TRC16-3-S
16	4	TRC16-4	TRC16-4-S
16	6	TRC16-6	TRC16-6-S
14	2	TRC14-2	TRC14-2-S
14	3	TRC14-3	TRC14-3-S
14	4	TRC14-4	TRC14-4-S
14	6	TRC14-6	TRC14-6-S
14	7	TRC14-7	TRC14-7-S
12	2	TRC12-2	TRC12-2-S
12	4	TRC12-4	TRC12-4-S
10	2	TRC10-2	TRC10-2-S
10	4	TRC10-4	TRC10-4-S



IES# UP-841
Hand held 6-2/0 GA. cutter



DUAL BOOSTER CABLE (BONDED)

60 V, J1127 (8 GA J1128)
100/500 FT ROLLS

IES#	GAUGE	COLOR
DBC-8	8	BLACK/YELLOW
DBC-6	6	BLACK/ORANGE
DBC-4	4	BLACK/WHITE
DBC-2	2	RED/BLACK



100 and 500 ft rolls

MOTOR LEAD WIRE (SRML)

600V UL 3231 200°C, 600 Volts, UL 3070 / UL 3278 150°C, 600 Volts

- Conductor: Stranded tin-plated annealed copper, conforming to ASTM B-33
- Insulation: Extruded silicone rubber with overall, non-fraying, fiberglass braid with glossy high temperature finish
- Temperature Ratings: Conductors with 4 AWG strands or larger are rated at 200°C and those with 6 AWG strands or smaller are rated at 150°C; 6 AWG and 8 AWG rated 150°C UL/ 200°C non-UL
- Applications: SRML wire is high temperature wire that may be used as motor lead wire for hazardous locations or lead wire for electrical equipment in high temperature environments. SRML wire performs well where flexibility and fire resistance are important.

IES#	AWG	COND. STRAND	NOM INSUL. THICKNESS	NOM OD (IN)	APPROX. LBS/MFT
SRML-18	18	16/.0100	0.03	0.121	11
SRML-16	16	26/.0100	0.03	0.132	17
SRML-14	14	41/.0100	0.03	0.15	23
SRML-12	12	65/.0100	0.03	0.17	32
SRML-10	10	105/.0100	0.045	0.227	53
SRML-8	8	133/.0111	0.06	0.305	92
SRML-6	6	133/.0142	0.06	0.345	133
SRML-4	4	133/.0177	0.06	0.4	190
SRML-3	3	133/.0202	0.06	0.46	240
SRML-2	2	133/.0223	0.06	0.547	280
SRML-1	1	259/.0177	0.08	0.585	359
SRML-1/0	1/0	259/.0202	0.08	0.645	440
SRML-2/0	2/0	259/.0229	0.08	0.7	659
SRML-3/0	3/0	259/.0255	0.08	0.755	659
SRML-4/0	4/0	259/.0286	0.08	0.82	812
SRML-250	250 MCM	427/.0255	0.1	0.905	986



BRAKE CABLE : DUPLEX/TRIPELX/QUADRIPELX

- Stranded Bare Copper Multi-Conductor Cable: 2, 3, or 4 conductors
- 100 and 500 foot rolls
- Insulation: Polyvinyl-chloride (PVC)
- Jacket: Gray Flat Jacketed Polyvinyl-chloride (PVC)
- Std Color Code: Conductor 1 Black; Conductor 2 White; Conductor 3 Green; Conductor 4 Red
- Applications: This type of automotive cable is suitable for use in electric brake applications, and in other automotive, truck or trailer applications. It is rated for temperatures between -40°C and +105°C

IES#	AWG	NO. OF COND.	COND. STRAND.	NOM INSUL. THICKNESS	APPROX LBS/MFT	APPROX DIM.
BRC-18-2	18	2	16/.0100	0.023	26	.150 X .245
BRC-16-2	16	2	19/.0112	0.023	33	.160 X .262
BRC-16-3	16	3	19/.0112	0.023	46	.160 X .365
BRC-16-4	16	4	19/.0112	0.023	61	.160 X .468
BRC-14-2	14	2	19/.0140	0.023	46	.182 X .280
BRC-14-3	14	3	19/.0140	0.023	64	.177 X .415
BRC-14-4	14	4	19/.0140	0.023	83	.165 X .524
BRC-12-2	12	2	19/.0177	0.026	64	.208 X .350
BRC-12-3	12	3	19/.0177	0.026	94	.208 X .486
BRC-12-4	12	4	19/25	0.026	140	.220 X .649
BRC-10-2	10	2	19/.0223	0.031	96	.235 X .410
BRC-10-3	10	3	19/23	0.031	144	.242 X .600
BRC-10-4	10	4	19/23	0.031	185	.242 X .779
BRC-8-2	8	2	19/21	0.037	180	.292 X .508



MARINE MULTI CONDUCTOR BOAT CABLE

UNDERWRITERS LAB, INC. LISTED BOAT CABLE RATED 600 VOLTS MEETS DEPARTMENT OF TRANSPORTATION, AND COAST GUARD SPECIFICATIONS FOR ELECTRICAL SYSTEMS. A3, ABYC

FOR TEMPERATURES UP TO 221° F (105° C) DRY AND 167° F (75° C) WET

CABLE HAS ELECTRO-TIN, PLATED COPPER, STRANDS FOR GREATER CORROSION PROTECTION.

EACH CONDUCTOR IS INSULATED AND JACKETING WITH FLAME RETARDANT PVC FOR INTERNAL WIRING OF ELECTRIC AND ELECTRONICS SYSTEMS.



TRIPLEX BOAT CABLE

3- Conductor - White jacket. Standard colors: Black- White - Green



IES#	GAUGE
MWBC18/3	18
MWBC16/3	16
MWBC14/3	14
MWBC12/3	12
MWBC10/3	10

100 ft rolls: C 500 rolls=D 1000 rolls=M

DUPLEX BOAT CABLE

2 Conductor - White Jacket. Standard colors: black/white . Specify for : red/black , red/yellow.



IES#	GAUGE
MWBC18/2	18
MWBC16/2	16
MWBC14/2	14
MWBC12/2	12
MWBC10/2	10

100 ft rolls= C 500 ft rolls= D 1000=M

SINGLE TINNED PRIMARY

COLORS: Black , red, green, purple, brown, pink, gray, orange, blue, teal, white, yellow. (add to end of IES#)



IES#	GAUGE
MWT18	18
MWT16	16
MWT14	14
MWT12	12
MWT10	10
MWT 8	8

100 ft rolls: C 500 rolls=D 1000 rolls=M

BILGE WIRE

(red, black, brown)



PART #	DESC
MWBW-16/3	16 GA
MWBW-14/3	14 GA.

MARINE BATTERY CABLE

(red, black or yellow)



IES#	GAUGE
MWBC6	6
MWBC4	4
MWBC2	2
MWBC1/0	1/0
MWBC2/0	2/0
MWBC3/0	3/0
MWBC4/0	4/0

(Rolls: 25 ft, 50 ft, 100 ft)

MARINE RATED BATTERY FUSE

High interrupt rating. Clear window-blown indicator.



IES#/AMP	IES#/AMP
MBF-30	MBF-90
MBF-40	MBF-100
MBF-50	MBF-125
MBF-60	MBF-150
MBF-75	MBF-200
MBF-80	MBF-250



DUPLEX FLAT RIBBON WIRE

(RED/BLACK)

IES#	DESC
MWTR-16/2	16 GA
MWTR-14/2	14 GA



MARINE RATED BATTERY FUSE BLOCKS

IES# MBFB-1 (SINGLE) / IES# MBFB-2 (DOUBLE)

- 58V DC, 300 AMP,
- WEATHER PROOF (CAN WITHSTAND HARSH ENVIRONMENT)
- 3/8" MOUNTING HOLE
- SAEJ1171 IGNITION PROTECTED
- RED SANTOPRENE COVER INCLUDED

We can cut to and provide any length.
Contact IES for all your heat shrink needs.



DUAL-WALL WITH ADHESIVE 2:1

Standard Colors: black, or red
Also Available in: blue, green, yellow, white, clear.
Add preferred color to end of IES#.

BEFORE SHRINKING ID	6"	12"	48"
1/8	HS1/8-6	HS1/8-12	HS1/8-48
3/16	HS3/16-6	HS3/16-12	HS3/16-48
1/4	HS 1/4-6	HS 1/4-12	HS 1/4-48
3/8	HS 3/8-6	HS 3/8-12	HS 3/8-48
1/2	HS 1/2-6	HS 1/2-12	HS 1/2-48
3/4	HS 3/4-6	HS 3/4-12	HS 3/4-48
1	HS 1-6	HS 1-12	HS 1-48

 Heat shrink terminals see page 11



TRANSLUCENT COLORED HEAT SHRINK

3-1 with sealant colored for gauge(12 "lengths)

IES#	COLOR	WIRE SIZE
HSCS-3/16	RED	22-18
HSCS-1/4	BLUE	16-14
HSCS-3/8	YELLOW	12 10



Heat shrink guns see page 12



HEAVY-WALL 3:1 SHRINK TUBE WITH SEALANT

Thermally stabilized poly olefin capable of continuous temperatures of -75° to 266° F.

Standard color: black / Add red to end of IES#

IES#	LENGTH	BEFORE SHRINK ID	CAN SHRINK TO
HSM1/2-2	2"	1/2"	3/16"
HSM1/2-12	12"	1/2"	3/16"
HSM1/2-48	48"	1/2"	3/16"
HSM3/4-2	2"	3/4"	1/4"
HSM3/4-12	12"	3/4"	1/4"
HSM3/4-48	48"	3/4"	1/4"
HSM1-6	6"	1.1"	1/2"
HSM1-12	12"	1.1"	1/2"
HSM1.5-6	6"	1-1/2"	3/4"
HSM1.5-12	12"	1-1/2"	3/4"
HSM2-12	12"	2"	1"



Battery terminals: see page 40



Copper lugs: see page 39



STANDARD POLY OLEFIN (NO SEALANT)

2/1 Standard color: black. Available in: red, white, green, yellow, clear, blue.

Add preferred color to end of IES#.

BEFORE SHRINKING	100 FT. ROLL	4 FT. STICKS	1 FT. STICKS
1/16	HSPF 062	HSPF 062-48	HSPF 062-12
1/8	HSPF 125	HSPF 125-48	HSPF 125-12
3/16	HSPF 187	HSPF 187-48	HSPF 187-12
1/4	HSPF 250	HSPF 250-48	HSPF 250-12
3/8	HSPF 375	HSPF 375-48	HSPF 375-12
1/2	HSPF 500	HSPF 500-48	HSPF 500-12
5/8	HSPF 625	HSPF 625-48	HSPF 625-12
3/4	HSPF 750	HSPF 750-48	HSPF 750-12
1	HSPF 1000	HSPF 1000-48	HSPF 1000-12

 Heat shrink terminals see page 11



Also available in all colors shown.

CONVOLUTED "SPLIT" LOOM

INSIDE DIA.	STANDARD (BLK) -40° - 300° F	NYLON (BLK) -40° - 300° F	POLYPROPYLENE -40° - +275°F
1/8	SL-1/8	-	-
1/4	SL-1/4	SL-1/4N	SL1/4-FRP
5/16	SL-5/16	SL-5/16N	SL5/16-FPR
3/8	SL-3/8	SL-3/8N	SL3/8-FPR
1/2	SL-1/2	SL-1/2N	SL1/2-FPR
5/8	SL-5/8	SL-5/8N	SL5/8-FPR
3/4	SL-3/4	SL-3/4N	SL3/4-FPR
1"	SL-1	SL-1N	SL1-FPR

- Standard Roll: 100 feet/ Standard Color: BLACK
- 1/4" & 3/8" available in 500 ft rolls
- Available in HALF & FULL GAYLORDS
- UL, CSA, TIA
- Add desired color to end of part #. Example SL-1/4-RED. Note colors only available in standard Polyethylene

SPIRAL WRAP

Standard: Polyethylene, 100 ft. rolls, color: White.
For Black add "Black" to end of IES#



I.D.	IES#
1/8	SCL-1/8
3/16	SCL-3/16
1/4	SCL-1/4
3/8	SCL-3/8
1/2	SCL-1/2
3/4	SCL-3/4
1"	SCL-1

Also available in : "FR" Fire Resistant -20° C- 176° F. "N" Nylon -40° C- 250° F.

VINYL TUBING

Standard Color Black
Available in clear 100 ft. rolls.



I.D.	IES#	ID	IES#
1/16	VT-062	7/16	VT-437
1/8	VT-125	1/2	VT-500
3/16	VT-187	9/16	VT-562
1/4	VT-250	5/8	VT-625
5/16	VT-312	3/4	VT-750
3/8	VT-375	1	VT-1000



SPLIT LOOM DISPENSER BOXES

Efficient - easy dispensing with built in reel.
Available only in Nylon w/gray stripe material.
Temp: - 40 to 300F

I.D.	IES#	FT. PER BOX
1/4"	SL1/4N-BX	100
3/8"	SL3/8N-BX	100
1/2"	SL1/2N-BX	100
3/4"	SL3/4N-BX	100
1"	SL1N-BX	50



SPLIT LOOM TOOLS

IE split loom application tools reduce the time of inserting wires into loom by 90%. Also reduces cutting injuries caused by manual insertion.

IES#	SIZE- RANGE
SLT-08	1/4" - 7/16"
SLT-15	1/2" - 5/8"
SLT-20	3/4" - 7/8"
SLT-25	1" - 1 1/4"



IES# HKC-TOL

110 v- Quickly & easily cuts and seals most braided sleeving



IES# SLCC-TOL

Clean cuts split and spiral tubing safely.

EXPANDABLE SLEEVING

100 ft. rolls



I.D.	IES#
1/4	EXS-250
3/8	EXS-375
1/2	EXS-500
3/4	EXS-750
1 1/4	EXS-1250
1 3/4	EXS-1750

Standard BLACK... add color to IES#: Example EXS-250Red.
Available in green, red, orange, blue, white, yellow, purple, pink, gray
BULK ROLLS AVAILABLE

SPLIT EXPANDABLE SLEEVING

50/100/500 ft. rolls

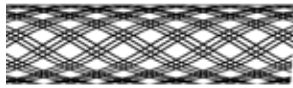


I.D.	IES#
1/4	EXS-S-250
3/8	EXS-S-375
1/2	EXS-S-500
3/4	EXS-S-750
1 1/4	EXS-S-1250
1 3/4	EXS-S-1750

Standard BLACK... add color to IES#: Example EXS-250Red.
Available in green, red, orange, blue, white, yellow, purple, pink, gray
Also available in fire resistant add "FR" to end of part# (257 °F/ 125 °C)
BULK ROLLS AVAILABLE



NEW ITEM!



2:1 FABRIC HEAT SHRINK TUBING (BLACK)

- 275 F Shrink
- High Flex
- Resists Chemicals
- 25 ft/100 ft rolls

PART #	ID
FHS-1/2	1/2"
FHS-3/4	3/4"
FHS-136	1-3/16"
FHS-150	1-1/2"
FHS-2	2"



INDUSTRIAL HARSH ENVIRONMENT HOSE & CABLE PROTECTION (.45 MIL)

- Resists Snagging
- Prevents UV, gasoline, chemicals, salt damage
- High flex
- 50 ft / 100 ft spool

PART #	ID
DFN0.71BK	.71"
DFN0.83BK	.83"
DFN1.00BK	1"
DFN1.25BK	1-1/4"
DFN1.50	1-1/2"
DFN1.75	1-3/4"
DFN207BK	2.07"
DFN238BK	2.38"
DFN334BK	3.34"



FLEXO FLAME RETARDANT EXPANDABLE SLEEVING

- VW-1, Mil-2020, Far 25, FMVSS302 spec
- Neg 94 ft. 257°F (482 f melt)
- Cut abrasion resistant
- Expands 150 %
- Standard : black

PART #	ID
EXS-1/4-FR	1/4"
EXS-3/8-FR	3/8"
EXS-1/2-FR	1/2"
EXS-3/4-FR	3/4"
EXS-1-FR	1"
EXS-1-5-FR	1-1/2"

For black with tracer options: add following codes to the end of desired part #
 BR= black W/red, OS= Black W/orange,
 YS = black W/yellow, WH= black W/ white



INDUSTRIAL HARSH ENVIRONMENT PROTECTION (HOOK & LOOP CLOSURE)

25 FT OR 100 FT SPOOL

PART #	ID
DFNHL-1	1"
DFNHL-1.5	1-1/2"
DFNHL-2	2"
DFNHL-2.5	3"
DFNHL-3.5	3-1/2"
DFNHL-4	4"



FLEXO SPLIT FLAME RETARDANT EXPANDABLE SLEEVING

- VW-1, Mil-2020, Far 25, FMVSS302 spec
- Neg 94 ft. 257°F (482 f melt)
- Cut abrasion resistant
- Expands 150 %
- Standard : black W/ white tracer (only)

PART #	ID
EXSS-1/4-FR	1/4"
EXSS3/8-FR	3/8"
EXSS-3/4-FR	3/4"
EXSS-1-FR	1"
EXSS-1.25FR	1-1/4"
EXSS-1.5-FR	1-1/2"



METAL BRAIDED SLEEVING

- Protects harnesses & cables
- Electromagnetic, electrostatic, and radio frequency discharge protection
- Tinned copper
- Melt Point: 449°F/232°C
- Grounding
- Cosmetic

PART#	O. D.	SPOOL SIZE (FT.)
MBS-1/4	1/4"	100
MBS-3/8	3/8"	100
MBS-1/2	1/2"	50
MBS-5/8	5/8"	50
MBS-1	1"	50
MBS-1.5	1-1/2"	50
MBS-2.25	2-1/4"	50

**3M-33**

High Performance. Super stretch & memory. Resists; UV, abrasion, corrosion, alkalis & acids. Flame retardant. 150° F (220° C) Standard: Black 7 Mil. (3M Product) Available individual or sleeves of 10 rolls

3M**3M-EMS**

Electrical moisture sealant pads (25 pk)



35-ORG	35-YEL	35-BRN
35-GRN	35-WHT	35-GRY
35-BLUE	35-PRPL	35-RED

**3M-88 (SUPER 88)**

The ultimate all weather tape. Heavy duty professional use. Fast build up. 220° F - 105° C. UL, CSA. Mil-1-24391C (Type 2) 8.5 Mil. (3M Product)

**SM-2242**

Ultra heavy-duty liner-less splicing compound. Rubber tape. All voltage jacketing & insulating. 175° - 266° F, 30 Mil. (3x4"x15", 5 yds.) 3M product.

**20970 COLD SHRINK TAPE**

Ideal for covering all types of lugs and splices. The tape "welds" itself to form a tough watertight seal against weather and moisture. Temp range: -40 - 212° F (1" x 10 ft.) Color: black

**3M-1776**

Temflex 80° C (176° F) 3/4" x 60 ft (20 yd) UL, CSA. Standard: Black. 3M Product. Available individual or sleeves of 10 rolls

**3M-SCOTCHFIL**

Insulation putty tape. Black. Self fusing, insulating putty in tape form. Up to 600 volts. 176° F (80° C) 3M Product

**SUPER SILICONE SEALANT**

Waterproofs, bonds & seals (3 oz. tube)
#3M-08661 (CLEAR)
#3M-08662 (BLACK)

**BRUSH ON**

Forms a tough, flexible coating on metal, rubber and PVC. (4 oz can W/ brush)

IES#	COLOR
NA55	BLACK
NA56	RED
NA57	GREEN
NA58	RED
NA59	WHITE

**3M-27****GLASS CLOTH ELECTRICAL TAPE**

High Temperature tape with thermosetting pressure sensitive adhesive. Operates at Class B, 130° C (266° F). Provides heat stable insulation for furnace, oven controls, motor leads, etc. 3/4" x 66 ft. (2 yds) 3M product

**PART# 3MHL-1-5**

3M HOOK AND LOOP VELCRO
5 YARD 1" WIDE BLACK





INTERIOR ANTI-ABRASION CLOTH "FUZZY" WIRE HARNESS TAPE

Double-layer PET cloth with acrylic adhesive superior protection and flexibility

PART#	COLOR	ROLL SIZE
51608	BLACK	3.4" X 82"



3M

CONSPICUITY TAPE (983 SERIES)

PART#	COLOR	ROLL SIZE	THICKNESS
IE-20804	6"RED 6" WHITE	2"X150"	0.18
IE-20805	6"RED 6" WHITE	2"X18" STRIPS	0.18
IE-20810	YELLOW	2"X150"	0.18



EXTERIOR ANTI-ABRASION WIRE HARNESS TAPE

PART#	COLOR	ROLL SIZE
51026	BLACK	3/8" X 82.5'
51036	BLACK	3/4" X 82.5'
51036.70R	ORANGE	3/4 X 82'



3M

ALUMINUM FOIL TAPE

PART#	COLOR	ROLL SIZE	THICKNESS
IE-20958	GRAY	2"X180'	5 MIL

Temp 300f (149c) -65f (-54c)



EXTERIOR ANTI-ABRASION WIRE HARNESS TAPE

PART #	ROLL
IE-51136	9.5"X72 YD



DUCT TAPE

PART#	COLOR	ROLL SIZE	TEMP
IE-20955 (PREMIUM)	SILVER	2"x60 YDS	200F (93C)
IE-20950 (ALL PURPOSE)	SILVER	2"x60 YDS	200F (93C)



BUNDLING (ELECTRICIAN TAPE)

PART#	COLOR	ROLL SIZE	THICKNESS	TEMP
SCOTCH-2000	GRAY	2"X150'	6 MIL	221 F(105 C)



BLACK MAXX NITRILE EXAM

Powder Free 100 pack (case 1000)

PART#	SIZE
BMN100-L	LARGE
BMN100-XL	X-LARGE
BMN100-XXL	XX-LARGE



EMERALD GRIP NITRILE EXAM

Powder Free 100 pack (case 1000)

PART#	SIZE
6803-M	MEDIUM
6803-L	LARGE
6803-XL	X-LARGE



MAX GRIP (EMERALD)

Nitrile 2 side tread grip- 7 mil 50 ct (500 case)

PART#	SIZE	COLOR
MGO-L	LARGE	ORANGE
MGO-XL	XL	ORANGE
MGO-XXL	XXL	ORANGE
MGB-L	LARGE	BLUE
MGB-XL	XL	BLUE
MGG-XXL	XXL	BLUE



SAFETY GLASSES

CRYSTAL CLEAR
(25/50 /100 COUNT)
SGC-1000



CLOTH DISPOSABLE SURGICAL MASK

50 /100 COUNT
IE-2009



KN-95 MASK

5 COUNT
IE-KN95

Plymouth

PLYMOUTH RUBBER EUROPA S.A.

**PLYMOUTH REVERE**

- Premium Electrical Tape
- High Flex
- Weather Resistant
- Fire Retardant
- Lead free
- EU-Made in Spain

PART#	COLOR
PLY-01	BLACK
PLY-02	BROWN
PLY-03	YELLOW
PLY-04	RED
PLY-05	WHITE
PLY-06	ORANGE
PLY-07	GREY

**SOLDERING IRON KIT (PART# SIK-W)**

- Weller Super Pro Self-Igniting Butane Soldering
- Iron Kit
- Auto Switch safety shut off
- 125 watts
- Iron Plated Tip

**SOLDER**

PART# SDSR	.040 Rosen core solder 1 lb spool 60/40 kester
PART# SDR14	.062 Rosen core solder 1 lb spool 25 lb spool 60/40
PART# ASDR1	1 lb .062 aluminum solder

**CRC HEAVY-DUTY CORROSION INHIBITOR**

10 .oz spray
(Sold each or case of 12)

IES# 06026

**INDUSTRIAL/HOSPITAL DISINFECTANT SPRAY**

- 1 lb-0.5 oz • No odor
- Kills cold, flu, viruses
- Eliminates odors
- Prevents mold/mildew

PART# 1- 9740-3

**FEZ TAPE**

No Cutting- easy to tear - waterproof

PART #	LENGTH	WIDTH
FT-9MM15-60CT	15M (49.22')	.354"
FT-19MM15-60CT	15M (49.22')	.748"

**PERMATEX**

Dielectric Grease (3oz tube)

PART# 22058

**SUPER LUBE**

Anti-corrosion electrical connection gel

PART# PZGGEL

**WD-40 INDUSTRIAL**

Electronic contact cleaner spray (11.Oz)

PART# WD1029

**WD-40 INDUSTRIAL**

Inhibitor Spray (6.5 oz)

PART# 30035

**BUTYL RUBBER SEAL TAPE**

BST-2251 | BLACK 3/4" X 30'

**tesa****TESA PAINT PROTECTION TAPE**

PART# IE-50530

**VHB DOUBLE-SIDED FOAM TAPE**

21st Century tape. Replaces rivets, bolts, screws, welding and liquid adhesives. Incredible VHB™ strength guarantees a strong bond. Soft conformable foam molds to irregular surfaces. Bonds well to painted and powder-coated metals and hard-to-stick plastics like polyethylene and silicone. Temperature range is -40°F to 200°F. Resists moisture, UV and solvents. Indoor/outdoor. Black foam with acrylic adhesive; red polyethylene liner.

IES #	DIMENSIONS	MIL/COLOR
5952-5	1/2" X 5 YD	.45 /BLACK
5952-36	1/2" X 36 YD	.45/BLACK
4941	1/2" X 36 YD	.90/ GREY
4910	3/4" X 36 YD	.45 /CLEAR
5952	3/4" X 36 YD	.45/BLACK
5925	1" X 10'	.25 MIL /BLACK

**CRC QUICK DRY ELECTRONIC CLEANER**

11 .oz spray
(Sold each or case of 12)

IE # 05103

**SPRAY LIQUID ELECTRICAL TAPE**

6oz can - Black

PART# SPE-6-B

COPPER & TINNED LUGS 8 - 4/0 GAUGE



8 GAUGE LUGS		
COPPER	TINNED COPPER	STUD
CL8-10	CLT8-10	10
CL8-14	CLT8-14	1/4
CL8-56	CLT8-56	5/16
CL8-38	CLT8-38	3/8
CL8-12	CLT8-12	1/2



6 GAUGE LUGS		
COPPER	TINNED COPPER	STUD
CL6-10	CLT6-10	10
CL6-14	CLT6-14	1/4
CL6-56	CLT6-56	5/16
CL6-38	CLT6-38	3/8
CL6-2	CLT6-12	1/2



4 GAUGE LUGS		
COPPER	TINNED COPPER	STUD
CL4-10	CLT4-10	10
CL4-14	CLT4-14	1/4
CL4-56	CLT4-56	5/16
CL4-38	CLT4-38	3/8
CL4-12	CLT4-12	1/2



2 GAUGE LUGS		
COPPER	TINNED COPPER	STUD
CL2-10	CLT2-10	10
CL2-14	CLT2-14	1/4
CL2-56	CLT2-56	5/16
CL2-38	CLT2-38	3/8
CL2-12	CLT2-12	1/2



1 GAUGE LUGS		
COPPER	TINNED COPPER	STUD
CL1-10	CLT1-10	10
CL1-14	CLT1-14	1/4
CL1-56	CLT1-56	5/16
CL1-38	CLT1-38	3/8
CL1-12	CLT1-12	1/2



1/0 LUGS		
COPPER	TINNED COPPER	STUD
CL1/0-14	CLT1/0-14	1/4
CL1/0-56	CLT1/0-56	5/16
CL1/0-38	CLT1/0-38	3/8
CL1/0-12	CLT1/0-12	1/2



2/0 LUGS		
COPPER	TINNED COPPER	STUD
CL2/0-14	CLT2/0-14	1/4
CL2/0-56	CLT2/0-56	5/16
CL2/0-38	CLT2/0-38	3/8
CL2/0-12	CLT2/0-12	1/2



3/0 LUGS		
COPPER	TINNED COPPER	STUD
CL3/0-14	CLT3/0-14	1/4
CL3/0-56	CLT3/0-56	5/16
CL3/0-38	CLT3/0-38	3/8
CL3/0-12	CLT3/0-12	1/2



4/0 LUGS		
COPPER	TINNED COPPER	STUD
CL4/0-14	CLT4/0-14	1/4
CL4/0-56	CLT4/0-56	5/16
CL4/0-38	CLT4/0-38	3/8
CL4/0-12	CLT4/0-12	1/2



IES# 19284-0034
8-4/0 COPPER LUG
CRIMP TOOL

IE offers bent 45 degree and 90 degree based upon you specs. Minimum quantities may apply.



STRAIGHT BATTERY CLAMPS

For standard clamp-to-lug or clamp-to-clamp battery cables.
Complete with nuts & bolts.



IES#	GAUGE	POST
CBT-6U	6 GA.	UNIV.
CBT-4U	4 GA.	UNIV.
CBT-4P	4GA.	POS.
CBT-4N	4 GA.	NEG.
CBT-1P	1 GA.	POS.
CBT-1N	1 GA.	NEG.
CBT-1/OP	1/0	POS.
CBT-1/ON	1/0	NEG.
CBT-2/OP	2/0	POS.
CBT-2/ON	2/0	NEG.
CBT-3/OP	3/0	POS.
CBT-3/ON	3/0	NEG.
CBT-4/OP	4/0	POS.
CBT4-/ON	4/0	NEG.

FLAG (LEFT/RIGHT)

To connect two or more batteries. Off-set barrel design allows clearance around vent caps. Complete with nuts and bolts.



IES#	GAUGE	POST
CBTF-1/OP	1/0	POS
CBTF-1/ON	1/0	NEG
CBTF-2/OP	2/0	POS
CBTF-2/ON	2/0	NEG
CBTF-3/OP	3/0	POS
CBTF-3/ON	3/0	NEG
CBTF-4/OP	4/0	POS
CBTF-4/ON	4/0	NEG

HEAVY-DUTY BUTT SPLICE

IES#	GAUGE
B4-HD	4
B1/0-HD	1/0
B2/0-HD	2/0

For more splices see page 40

**LOCKING
ANTI-ROTATIONAL
STACKABLE LUGS**
3/8" Stud


PART #	GAUGE
LARS-1/0	1 OT
LARS-2/0	2 OT
LARS - 3/0	3 OT

RIGHT ELBOW CLAMP

For use when clearance around battery vent caps or other obstacles in the battery box are needed.
Elbow clamps allow cable to be routed efficiently, using the shortest path. Complete with nuts & bolts.



IES#	GAUGE	POST
CBTR-1/OP	1/0	POS
CBTR -1/ON	1/0	NEG
CBTR-2/OP	2/0	POS
CBTR-2/ON	2/0	NEG
CBTR-3/OP	3/0	POS
CBTR-3/ON	3/0	NEG
CBTR-4/OP	4/0	POS
CBTR-4/ON	4/0	NEG

LEFT ELBOW CLAMP

IES#	GAUGE	POST
CBTL-1/OP	1/0	POS
CBTL-1/ON	1/0	NEG
CBTL-2/OP	2/0	POS
CBTL-2/ON	2/0	NEG
CBTL-3/OP	3/0	POS
CBTL-3/ON	3/0	NEG
CBTL-4/OP	4/0	POS
CBTL-4/ON	4/0	NEG

MAINTENANCE-FREE BATTERY TERMINALS

MFBS



MFBD

IES#	GAUGE	IES#	GAUGE
MFBS-4	4 GA.	MFBD-1/0	1/0
MFBS-1	1-2 GA.	MFBD-2/0	2/0
MFBS-1/0	1/0	MFBD-3/0	3/0

**STACKABLE FLAG TERMINAL**

(3/8" Stud)

PART #	GA
SFT-1/0	1/0
SFT-2/0	2/0
SFT-3/0	3/0


MARINE TYPE
EW8 (3/8" STUD)
**BN402S**

Shoulder-nut W/bolt



MFB-NUT


TOP POST (LEAD)
E8 4-2 GAUGE
E8-HD 2GA - 4/0

SIDE POST (LEAD)
E-9



HEAVY-DUTY TOP POST EPOXY COATED

Fits 6-1 gauge cables

IES#	POLARITY
E8-P	POSITIVE
E8-N	NEGATIVE



HEAVY DUTY REPLACEMENT SIDE TERMINAL (UNIVERSAL)

Fits 6 to 1 gauge

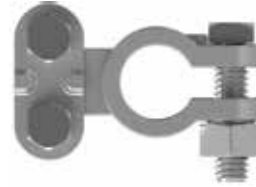
IES#	RST-U
------	-------



3 WAY TOP POST TERMINAL

Fits 6-1 gauge cables

IES#	POLARITY
TP-3P	POSITIVE
TP-3N	NEGATIVE



3- WAY TOP POST COMMERCIAL TERMINAL

Fit 2- 4/0 gauge terminals

IES#	POLARITY
TPC-3P	POSITIVE
TPC-3N	NEGATIVE



EPOXY COATED WING NUT TERMINALS (MARINE STYLE)

- Clamp -type wing nut terminals convert standard post to marine or other special uses
- Brass plated wing nut
- Epoxy coating aids in polarity identification and corrosion resistance
- Positive terminal Stud size is 3/8"
- Negative terminal Stud size is 5/16"

IES#	POLARITY	COLOR
MW8-P	POSITIVE	RED
MW8-N	NEGATIVE	BLACK

BRASS TERMINALS

IES# BT-P/N
1 pos/neg per bag

IES# BT-U
(Universal)



SIDE TERMINAL ADAPTERS

- Converts post terminal battery for use with side terminal cables.

STA-P	POSITIVE
STAP-N	NEGATIVE

SIDE TERMINAL CHARGING POSTS

- Facilitative charging and testing of side terminal batteries
- Posts have 3/8 threaded Stud to screw into side terminal
- Batteries not intended for side terminal post conversion

IES#	POLARITY
STCP-P	POSITIVE
STCP-N	NEGATIVE



SPCU

BATTERY BOLT EXTENDERS



FEMALE STUD POST LEAD/UNIVERSAL



SM-EXT-WS



SMEXT-HD



SOLDER SLUG PELLETS

IES#	GAUGE
SS-4	4
SS-2	2
SS-1	1
SS-1/0	1/0
SS-2/0	2/0
SS-3/0	3/0
SS-4/0	4/0

LEAD QUICK DISCONNECT TERMINAL

- Designed for top posts batteries. Fits both negative and positive posts
- For use in passenger cars, light duty trucks, farm equipment, marine, RVs, and ATVS
- The cable easily detaches from the battery for anti-theft protection to prevent electric drain.



IES# LQD-U

SIDE CHARGING POST

MILITARY (LEAD)



STCP (POS) / STCN (NEG)



MLP-N (NEG.) / MLP-P (POS.)

POST TO THREAD CONNECTOR

IES# PTT-3/8



Change a post type battery to a 3/8" Stud. Can be used with an OE nut. Wing nut or hex nut can be used if clearance is a problem

UNIVERSAL SIDE TERMINAL CONVERSION POST

IES# UST-CP



Extends above the battery to convert side terminal to a post terminal. For use with post terminal battery cables or group charging.

SIDE TERMINAL ADAPTERS

IES# STA-01



Converts post terminal battery for use with side terminal

FLAG TO POST TERMINAL ADAPTERS

IES# FTP-T



Designed to convert most U1 flag terminal batteries to post terminal application where required

CHARGING POSTS WITH EARS

IES# IE-01477

IES# IE-05456



Facilitate charging & testing of side terminal batteries. Posts have 3/8" threaded Stud. ie-01477 fits 3/8" Stud

FREIGHT LINER TERMINAL (2/0)



IES# FRT-T

SELF FUSING AUTO TAPE

- Provides moisture tight seal
- Ideal for high temperature applications
- Alternative to heat shrink tubing
- Completely cure within 24 hours
- RoHS compliant
- Also avail. In : yellow (SFT-YLW), orange (SFT-ORG), Gray (SFT-GRY), Blue (SFT-BLU)

SFT-BLK



SFT-RED



MULTI-ACCESSORY TERMINALS



IES# MMA-T

- Perfect for installing on-board chargers, GPS, fish finders, etc.
- Each terminal includes: (2) 16-14 GA, (2) 12-10 GA wire crimp terminals
- Positive (red) fits 3/8", Negative (black) fits 5/16"
- Brass plate, stainless steel screws resist corrosion in any marine environment

MARINE HEX NUTS (STAINLESS)



IES# MHN-56

5/16-18 UNC • 100 count bags



IES# WN-SS

WING NUTS (stainless) • 100 ct bags

MULTI-POLE POWER CONTACTS



SB120 SERIES (120 amp 2.5" length)					SB50 SERIES (50 AMP 1-7/8 length)				
	GAUGE	KIT*	HOUSING	CONTACT		GAUGE	KIT*	HOUSING	CONTACT
RED	4	SB4-K-R	SB4-H-R	SB4-C	RED	6	SB6-K-R	SB6-H-R	SB6-C
	6	SB6-K-R	SB6-H-R	SB6-C		8	SB8-K-R	SB8-H-R	SB8-C
	2	SB2-K-R	SB2-H-R	SB2-C		10	SB10-K-R	SB10-H-R	SB10-C
GRAY	4	SB4-K-G	SB4-H-G	SB4-C	GRAY	6	SB6-K-G	SB6-H-G	SB6-C
	6	SB6-K-G	SB6-H-G	SB6-C		8	SB8-K-G	SB8-H-G	SB8-C
	2	SB2-K-G	SB6-H-G	SB2-C		10	SB10-K-G	SB10-H-G	SB10-C
BLUE	4	SB4-K-B	SB4-H-B	SB4-C					
	6	SB6-K-B	SB6-H-B	SB6-C					
	2	SB2-K-B	SB2-H-B	SB2-C					

*Kits include housing & contacts, 175 series (175 amp) avail. Contact IES

Deka

BATTERIES & ACCESSORIES



BATTERY CLEANER SPRAY

PART# 00450
SPRAY W/ACID
INDICATOR (11 OZ)



BATTERY TERMINAL PROTECTION SPRAY

IES# 00320
10 OZ (SINGLE CAN OR
12-COUNT CASE)



BATTERY CLEANER SPRAY

IES# 00321
15 OZ (SINGLE CAN OR
12-COUNT CASE)



T-BOLT
IES# 31184



FLAG BATTERY TERMINAL INSULATORS

PART#	GA	COLOR
TGF-20	1 & 2	RED
TGF-25	1 & 2	BLACK
TGF-2000	1/0-2/0	RED
TGF-2005	1/0-2/0	BLACK

BATTERY TERMINAL INSULATORS



TOP TERMINAL

IES#	GAUGE	COLOR
TG-40	4	RED
TG-45	4	BLACK
TG-20	1-2	RED
TG-25	1-2	BLACK
TG-2000	1/0-2/0	RED
TG-2005	1/0-2/0	BLACK



SIDE TERMINAL

IES#	GAUGE	COLOR
TGS-40	4	RED
TGS-45	4	BLACK
TGS-10	1-2	RED
TGS-15	1-2	BLACK



RIGHT ELBOW

IES#	GAUGE	COLOR
TGR-20	1-2	RED
TGR-25	1-2	BLACK
TGR-2000	1/0-2/0	RED
TGR-2005	1/0-2/0	BLACK



LEFT ELBOW

IES#	GAUGE	COLOR
TGL-20	1-2	RED
TGL-25	1-2	BLACK
TGL-2000	1/0-2/0	RED
TGL-2005	1/0-2/0	BLACK



3/8" STUD FLEET

IES#	GAUGE	COLOR
TGSF-20	1-2	RED
TGSF-25	1-2	BLACK
TGSF-2000	1/0-2/0	RED
TGSF-2005	1/0-2/0	BLACK

BATTERY LEADS/STRAPS

Popular leads shown. Constructions not listed can be made to customer requirements.

INSULATED BATTERY CABLES



With regulator lead (add R to IES#) Standard black: add red for red wire.

LENGTH	IES# (2 GAUGE)	IES# (4 GAUGE)	IES# (6 GAUGE)
9"	C-9-2	C-9-4	C-9-6
14"	C-14-2	C-14-4	C-14-6
19"	C-19-2	C-19-4	C-19-6
27"	C-27-2	C-27-4	C-27-6
34"	C-34-2	C-34-4	C-34-6
41"	C-41-2	C-41-4	C-41-6
68"	C-48-2	C-48-4	C-48-6

BATTERY JUMPER CABLE



Standard color : Black. Add Red for red wire.

LENGTH	IES# (2 GAUGE)
8"	J-08-2
12"	J-12-2
14"	J-14-2
19"	J-19-2

BATTERY GROUND STRAP



Tinned copper braid strap

LENGTH	IES# (4 GA.)	LENGTH	IES# (4 GA.)
7"	B-07-4	17"	B-17-4
9"	B-09-4	19"	B-19-4
11"	B-11-4	24"	B-24-4
14"	B-14-4	27"	B-27-4

MOTOR TO GROUND



LENGTH	IES# (4 GA.)
8"	M-08-4
12"	M-12-4
18"	M-18-4

SWITCH TO STARTER CABLE



LENGTH	IES# (2 GAUGE)	IES# (4 GAUGE)
13"	S-13-2	S-13-4
18"	S-18-2	S-18-4
32"	S-32-2	S-32-4
41"	S-41-2	S-41-4

POWER STARTER LUGS

MATERIAL: HIGH CONDUCTIVITY TUBULAR COPPER

FINISH: ELECTRO-TIN PLATED

INSTALLING TOOL: CT-090

IES#	WIRE GA	STUD	DIE COLOR
ML8-14	8	1/4"	RED
ML8-56	8	5/16"	RED
ML8-38	8	3/8"	RED
ML8-12	8	1/2"	RED
ML6-14	6	1/4"	BLUE
ML6-56	6	5/16"	BLUE
ML6-38	6	3/8"	BLUE
ML6-12	6	1/2"	BLUE
ML4-14	4	1/4"	GRAY
ML4-56	4	5/16"	GRAY
ML4-38	4	3/8"	GRAY
ML4-12	4	1/2"	GRAY

IES#	WIRE GA	STUD	DIE COLOR
ML1-2-56	1&2	5/16"	PINK
ML1-2-38	1&2	3/8"	PINK
ML1-2-12	1&2	1/2"	PINK
ML1/0-56	1/0	5/16"	BLACK
ML1/0-38	1/0	3/8"	BLACK
ML1/0-12	1/0	1/2"	BLACK
ML2/0-56	2/0	5/16"	ORANGE
ML2/0-38	2/0	3/8"	ORANGE
ML2/0-12	2/0	1/2"	ORANGE
ML3/0-56	3/0	5/16"	PURPLE
ML3/0-38	3/0	3/8"	PURPLE
ML3/0-12	3/0	1/2"	PURPLE
ML4/0-56	4/0	5/16"	YELLOW
ML4/0-38	4/0	3/8"	YELLOW
ML4/0-12	4/0	1/2"	YELLOW

Available in double barrel style. 1/0 to 4/0 add: "-2" to end of IE number.
Also available bent 45° and 90° degree. Contact Industry Electric with your requirements.

BATTERY LUGS W/ ANTI-ROTATION PADS

For side mount & top mount batteries W/ threaded Stud posts

IES#	CABLE SIZE	STRIP LENGTH	STUD SIZE	DIMENSIONS							DIE COLOR CODE
				D4	L	A	C	C1	B	S	
ML1/0-38-AR	1/0	3/4	3/8	.610	2.126	.787	.945	.472	.866	.158	BLACK
ML2/0-38-AR	2/0	13/16	3/8	.650	2.205	.827	.945	.472	.906	.181	ORANGE
ML3/0-38-AR	3/0	15/16	3/8	.709	2.362	.984	.945	.472	1.024	.181	PURPLE
ML4/0-38-AR	4/0	1	3/8	.768	2.559	1.024	1.102	.551	1.102	.177	YELLOW

Popular parts shown. Most Stud sizes available. Contact IE.

MEGA BUTT SPLICES

MATERIAL: HIGH CONDUCTIVITY TUBULAR COPPER

FINISH: ELECTRO-TIN PLATED

INSTALLING TOOL: CT-090

IES#	BATTERY CABLE SIZE	DIMENSIONS		DIE COLOR CODE
		D4	L	
B-8HD	8 GA	.310	1.250	RED
B-6HD	6 GA	.335	1.378	BLUE
B-4HD	4 GA	.394	1.575	GREY
B-2HD	1-2 GA	.551	1.969	PINK
B1/0-HD	1/0	.610	1.969	BLACK
B2/0-HD	2/0	.650	2.165	ORANGE
B3/0-HD	3/0	.709	2.362	PURPLE
B4/0-HD	4/0	.768	2.559	YELLOW

**SKT-840**

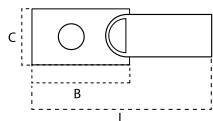
Economy hammer down battery crimper.

CT-080

For color coded lugs and splices.
Range: 6 GA - 1/0
Length: 15-1/4"
Weight: 3.32 lbs.

**BEST SELLER!****CT-090**

For color coded lugs and splices,
Revolving die, Hex Crimp.
Range: 6 GA - 4/0
Length: 25-1/2"
Weight: 6.5 lbs.

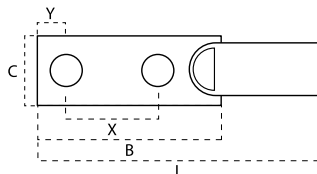


TYPE MSA

The type MSA is a single indent lug fabricated of pure seamless copper tubing and tin plated for additional resistance to corrosion. The window in the back of the barrel permits visual inspection of the cable insertion. For mounting hole sizes other than those shown, contact Industry Electric.

CABLE SIZE	STUD SIZE	CATALOG NUMBER	DIMENSIONS IN INCHES			
			L	S	B	C
6 STR.	3/16	MSA 6-3	1-17/16	7/8	17/32	1/2
6 STR.	1/4	MSA 6-4	1-11/16	7/8	11/16	1/2
6 STR.	5/16	MSA 6-5	1-23/32	7/8	23/32	1/2
6 STR.	3/8	MSA 6-6	1-3/4	7/8	3/4	17/32
5 STR.	5/16	MSA 5-5	1-3/4	7/8	3/4	17/32
4 STR.	3/16	MSA 4-3	1-17/32	7/8	17/32	9/16
4 STR.	1/4	MSA 4-4	1-11/16	7/8	11/16	9/16
4 STR.	5/16	MSA 4-5	1-3/4	7/8	3/4	9/16
4 STR.	3/8	MSA 4-6	1-7/8	7/8	7/8	9/16
2 STR.	1/4	MSA 2-4	1-25/32	7/8	23/32	5/8
2 STR.	5/16	MSA 2-5	1-27/32	7/8	25/32	5/8
2 STR.	3/8	MSA 2-6	1-15/16	7/8	7/8	11/16
2 STR.	1/2	MSA 2-8	2-1/16	7/8	1	25/32
1 STR.	1/4	MSA 1-4	1-29/32	7/8	25/32	1-1/16
1 STR.	5/16	MSA 1-5	1-29/32	7/8	25/32	1-1/16
1 STR.	3/8	MSA 1-6	2-1/32	7/8	29/32	1-1/16
1 STR.	1/2	MSA 1-8	2-3/16	7/8	1-1/16	3/4
1/0 STR.	1/4	MSA 1/0-4	1-27/32	7/8	23/32	3/4
1/0 STR.	5/16	MSA 1/0-5	1-29/32	7/8	25/32	3/4
1/0 STR.	3/8	MSA 1/0-6	2-1/32	7/8	29/32	3/4
1/0 STR.	1/2	MSA 1/0-8	2-3/16	7/8	1-1/16	13/16
2/0 STR.	5/16	MSA 2/0-5	1-31/32	7/8	25/32	13/16
2/0 STR.	3/8	MSA 2/0-6	2-3/32	7/8	29/32	13/16
2/0 STR.	1/2	MSA 2/0-8	2-1/4	7/8	1-1/16	13/16
3/0 STR.	5/16	MSA 3/0-5	2-1/8	1	25/32	29/32
3/0 STR.	3/8	MSA 3/0-6	2 1/4	1	29/32	29/32
3/0 STR.	1/2	MSA 3/0-8	2-13/32	1	1-1/16	29/32
4/0 STR.	5/16	MSA 4/0-5	2-3/16	1	25/32	1
4/0 STR.	3/8	MSA 4/0-6	2-5/16	1	29/32	1
4/0 STR.	1/2	MSA 4/0-8	2-15/16	1	1-1/16	1
250 MCM	3/8	MSA 250-6	2-7/16	1-1/8	29/32	1-3/32
250 MCM	1/2	MSA 250-8	2-11/16	1-1/8	1-5/32	1-3/32
300 MCM	1/2	MSA 300-8	2-11/16	1-1/8	1-5/32	1-3/16
300 MCM	5/8	MSA 300-9	2-15/16	1-1/8	1-13/32	1-3/16
350 MCM	1/2	MSA 350-8	2-11/16	1-1/8	1-5/32	1-9/32
350 MCM	5/8	MSA 350-9	2-15/16	1-1/8	1-13/32	1-9/32
400 MCM	1/2	MSA 400-8	2-3/4	1-13/16	1-5/32	1-13/32
400 MCM	5/8	MSA 400-9	3	1-13/16	1-13/32	1-13/32
500 MCM	1/2	MSA 500-8	3-11/32	1-3/8	1-17/32	1-17/32
500 MCM	5/8	MSA 500-9	3 11/32	1-3/8	1-17/32	1-17/32
600 MCM	1/2	MSA 600-8	3-19/32	1-3/8	1-3/4	1-23/32
600 MCM	5/8	MSA 600-9	3-19/32	1-3/8	1-3/4	1-23/32
750 MCM	1/2	MSA 750-8	4-1/32	1-5/8	1-15/16	1-29/32
750 MCM	5/8	MSA 750-9	4-1/32	1-5/8	1-15/16	1-29/32
800 MCM	1/2	MSA 800-8	4-1/32	1-5/8	1-15/16	1-31/32
800 MCM	5/8	MSA 800-9	4-1/32	1-5/8	1-15/16	1-31/32
1000 MCM	5/8	MSA1000-9	4-1/2	1-7/8	2-1/8	2-3/16
1500 MCM	3/4	MSA 1500	5-15/32	2-27/32	2-1/4	2-11/16
2000 MCM	3/4	MSA 2000	5-15/16	3-1/16	2-3/8	3-1/16

All lugs color coded, consult Industry Electric for specials



TYPE MSB

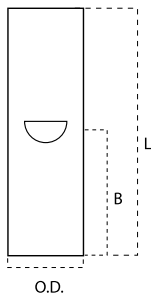
A two hole, single indent lug which is produced from pure seamless copper tubing, the type MSB is tin plated for added resistance to corrosion. The window in the back of the barrel permits visual inspection of the cable insertion. For mounting hole sizes other than those shown, refer to Industry Electric.

CABLE SIZE	STUD SIZE	CATALOG NUMBER	DIMENSIONS (INCHES)					
			L	S	B	C	Y	X
6 STR.	1/4	MSB 6-4	2-1/8	7/8	1-1/8	1/2	1/4	5/8
4 STR.	1/4	MSB 4-4	2-1/8	7/8	1-1/8	9/16	1/4	5/8
2 STR.	1/4	MSB 2-4	2-3/16	7/8	1-1/8	5/8	1/4	5/8
1 STR.	1/4	MSB 1-4	2-1/4	7/8	1-1/8	11/16	1/4	5/8
1/0 STR.	3/8	MSB 1/0-6	2-15/16	7/8	1-13/16	3/4	3/8	1
2/0 STR.	3/8	MSB 2/0-6	3	7/8	1-13/16	13/16	3/8	1
2/0 STR.	1/2	MSB 2/0-8N	4	7/8	2-13/16	13/16	9/16	1-3/4
3/0 STR.	3/8	MSB 3/0-6	3-5/32	1	1-13/16	29/32	3/8	1
3/0 STR.	1/2	MSB 3/0-8N	4-5/32	1	2-13/16	29/32	9/16	1-3/4
4/0 STR.	3/8	MSB 4/0-6	3-7/32	1	1-13/16	1	3/8	1
4/0 STR.	1/2	MSB 4/0-8N	4-7/32	1	2-13/16	1	9/16	1-3/4
250 MCM	3/8	MSB 250-6	3-11/32	1-1/8	1-13/16	1-3/32	3/8	1
250 MCM	1/2	MSB 250-8N	4-11/32	1-1/8	2-13/16	1-3/32	9/16	1-3/4
300 MCM	3/8	MSB 300-6	3-11/32	1-1/8	1-13/16	1-3/16	3/8	1
300 MCM	1/2	MSB 300-8N	4-11/32	1-1/8	2-13/16	1-3/16	9/16	1-3/4
350 MCM	3/8	MSB 350-6	3-11/32	1-1/8	1-13/16	1-9/32	3/8	1
350 MCM	1/2	MSB 350-8N	4-11/32	1-1/8	2-13/16	1-9/32	9/16	1-3/4
400 MCM	3/8	MSB 400-6	3-11/32	1-3/16	1-13/16	1-13/32	3/8	1
400 MCM	1/2	MSB 400-8N	4-13/32	1-3/16	2-13/16	1-13/32	9/16	1-3/4
500 MCM	3/8	MSB 500-6	3-19/32	1-3/8	1-13/16	1-17/32	3/8	1
500 MCM	1/2	MSB 500-8N	4-19/32	1-3/8	2-13/16	1-17/32	9/16	1-3/4
600 MCM	1/2	MSB 600-8N	4-21/32	1-3/8	2-13/16	1-23/32	9/16	1-3/4
750 MCM	1/2	MSB 750-8N	4-29/32	1-5/8	2-13/16	1-29/32	9/16	1-3/4
800 MCM	1/2	MSB 800-8N	4-29/32	1-5/8	2-13/16	1-31/32	9/16	1-3/4
1000 MCM	1/2	MSB1000-8N	5-3/16	1-7/8	2-13/16	2-3/16	9/16	1-3/4
1500 MCM	1/2	MSB1500-8N	6-1/16	2-3/4	2-13/16	3-1/16	1/2	1-3/4
2000 MCM	1/2	MSB2000-8N	6-3/8	3-1/16	2-13/16	3-1/16	1/2	1-3/4

TYPE MSC

This short barrel end to end cable coupler is fabricated of pure, seamless copper tubing and is tin plated for added resistance to corrosion. Produced in a wide range of cable sizes from #6 str. To 2000 mcm, this economical connector is installed with standard compression tooling.

CABLE SIZE	CATALOG#	DIMENSIONS(INCHES)		
		S	L	O.D.
6 STR.	MSC 6	7/8	1-3/4	.290
5 STR.	MSC 5	7/8	1-3/4	.314
4 STR.	MSC 4	7/8	1-3/4	.340
3 STR.	MSC 3	7/8	1-7/8	.375
2 STR.	MSC 2	7/8	1-7/8	.416
1 STR.	MSC 1	7/8	1-7/8	.462
1/0 STR.	MSC 1/0	7/8	1-7/8	.512
2/0 STR.	MSC 2/0	7/8	1-7/8	.560
3/0 STR.	MSC 3/0	1	2-1/8	.620
4/0 STR.	MSC 4/0	1	2-1/8	.687
250 MCM	MSC 250	1-1/8	2-3/8	.750
300 MCM	MSC 300	1-1/8	2-3/8	.813
350 MCM	MSC 350	1-1/8	2-3/8	.875
400 MCM	MSC 400	1-3/16	2-1/2	.950
500 MCM	MSC 500	1-3/8	2-7/8	1.059
600 MCM	MSC 600	1-3/8	2-7/8	1.185
650 MCM	MSC 650	1-3/8	2-7/8	1.230
750 MCM	MSC 750	1-5/8	3-3/8	1.299





ALUMINUM SCREW LUGS

TYPE A

IE NUMBER	WIRE RANGE COPPER OR ALUMINUM	STUD SIZE	STD. PKG.	SHIP WEIGHT PER C
A35	6-14	1/4	100	1.4
A90	2-12	1/4	100	2
A125	1/0-14	1/4	50	4
A250	250MCM-6	5/16	25	14
A350	350MCM-6	5/16	25	20
A500	500MCM-4	3/8	18	39
A600	600MCM-4	3/8	12	45
A800	800MCM- 350MCM	1/2	6	40
A1000	1000MCM- 500MCM	1/2	6	36



SILICON BRONZE SPLIT BOLT CONNECTORS

TYPE SE AND SEL

For copper and copper-weld wires. Made from high strength silicon bronze- highly resistant to corrosion and seasonal cracking. Manufactured in accordance with NEMA standards.

IE NUMBER	COPPER CONDUCTOR		MAXIMUM CONDUCTOR			
	RANGE OF EQUAL MAIN AND TAP		MIN. TAP. WITH ONE MAX. MAIN	AMER- DUCTOR TYPE SCP	COPPER WELD	
	MIN.	MAX.			STR	TYPE A
SBSB-10-S	16 STR.	10 STR.	16 STR.	N/A	N/A	N/A
SBSB-8-S	12 SOL.	8 STR.	16 STR.	N/A	N/A	N/A
SBSB-6-S	10 SOL.	6 SOL.	16 STR.	N/A	N/A	N/A
SBSB-4-S	8 SOL.	4 SOL.	16 STR.	8X	3 NO. 12	8A
SBSB-3-S	6 SOL.	2 SOL.	16 STR.	6	3 NO. 9	5A
SBSB-2-S	6 SOL.	2 STR.	14 STR.	4	3 NO. 7	3A
SBSB-1/0-S	4 SOL.	2 STR.	14 STR.	N/A	3 NO. 6	2A
SBSB-2/0-S	2 SOL.	2/0 STR.	14 STR.	2	3 NO. 5	N/A
SBSB-3/0-S	2 SOL.	3/0 STR.	12 SOL.	N/A	7 NO. 7	N/A
SBSB-350-S	4/0 STR.	350 MCM	8 SOL.	N/A	19 NO. 7	N/A
SBSB-500-S	250 MCM	500 MCM	8 SOL.	N/A	19 NO. 6	N/A
SBSB-750-S	350 MCM	750 MCM	8 SOL.	N/A	19 NO. 5	N/A
SBSB-100-S	500 MCM	1000 MCM	8 SOL.	N/A	N/A	N/A

COPPER SCREW LUGS

TYPE DDC



IE NUMBER		WIRE RANGE	
SOCKET	HEX	MAX.	MIN.
M 35*	N/A	8 STR.	14 SOL
M 70*	N/A	4 STR.	14 SOL
M 125	M 125 H	1/0 STR.	8 SOL
M 250	M 250 H	250 MCM	6 STR.
M 400	M 400 H	500 MCM	4/0
M 650	M 650 H	1000 MCM	500 MCM

*Screwdriver slot head screws. For tin plating add suffix TP



COPPER SCREW LUGS

TYPE CB

IE NUMBER	WIRE RANGE	STUD SIZE	SHIP WT. LBS/C
CB-25L	14-10	1/8	1.5
CB-35L	14-6	3/16	2.5
CBA-70L	14-4	1/4	3.7
CB-70L	12-2	1/4	5.6
3CB-90L	8-2	1/4	5.9
CB-125L	8-1/0	1/4	10.9
CB-175L	2-3/0	3/8	15.0
CB-225L	6-4/0	5/16	24.5
CB-300L	1/0-350	3/8	54.0
CB-400L	4/0-500	3/8	80.2
CB-650L	600-100	1/2	193.1



90 DEGREE MSA LUGS (LONG BARREL W/SIGHT HOLE)

PART#	GA	STUD	COLOR	PART#	GA	STUD	COLOR
MSA-414-90	4	1/4"	GREY	MSA-1/0-12-90	1 OT	1/2"	PINK
MSA-456-90	4	5/16"	GREY	MSA-2/0-56-90	2 OT	5/16"	BLACK
MSA-438-90	4	3/8"	GREY	MSA-2/0-38-90	2 OT	3/8"	BLACK
MSA412-90	4	1/2"	GREY	MSA-2/0-12-90	2 OT	1/2"	BLACK
MSA2-14-90	2	1/4"	BROWN	MSA-3/0-56-90	3 OT	5/16"	ORANGE
MSA2-56-90	2	5/16"	BROWN	MSA-3/0-38-90	3 OT	3/8"	ORANGE
MSA-238-90	2	3/8"	BROWN	MSA-3/0-12-90	3 OT	1/2"	ORANGE
MSA-212-90	2	1/2"	BROWN	MSA-4/0-56-90	4 OT	5/16"	PURPLE
MSA-156-90	1	5/16"	GREEN	MSA-4/0-38-90	4 OT	3/8"	PURPLE
MSA-138-90	1	3/8"	GREEN	MSA-4/0-12-90	4 OT	1/2"	PURPLE
MSA-112-90	1	1/2"	GREEN	MSA-250-560-90	250MCM	5/16"	YELLOW
MSA-1/0-56-90	1 OT	5/16"	PINK	MSA-250-38-90	250MCM	3/8"	YELLOW
MSA-1/0-38-90	1 OT	3/8"	PINK	MSA-250-12-90	250MCM	1/2"	YELLOW

ATO/ATC (BLADE)

Voltage Rating: 32V – AC/DC – Fast Acting
Approvals: UL, CSA, SAE 51284



IES#	COLOR
ATC-1	BLACK
ATC-2	GRAY
ATC-3	VIOLET
ATC-4	PINK
ATC-5	TAN
ATC-7.5	BROWN
ATC-10	RED
ATC-15	BLUE
ATC-20	YELLOW
ATC-25	CLEAR
ATC-30	GREEN
ATC-40	ORANGE

MINI (BLADE)

Voltage Rating: 32V – AC/DC – Fast Acting
Approvals: UL, CSA, J2077



IES#	COLOR
MIN-2	GRAY
MIN-3	VIOLET
MIN-4	PINK
MIN-5	TAN
MIN-7.5	BROWN
MIN-10	RED
MIN-15	BLUE
MIN-20	YELLOW
MIN-25	CLEAR
MIN-30	GREEN
MIN-40	ORANGE

MAXI (BLADE)

IES#	COLOR
MAX-20	YELLOW
MAX-30	GREEN
MAX-40	ORANGE
MAX-50	RED
MAX-60	BLACK
MAX-70	TAN
MAX-80	CLEAR
MAX-100	PURPLE

MINI LOW PROFILE

Lower Overall Height Allows For More Space, 32 Volt, Fast Acting



IES#	COLOR
MIN-LP-2	GRAY
MIN-LP-3	VIOLET
MIN-LP-4	PINK
MIN-LP-5	TAN
MIN-LP-7.5	BROWN
MIN-LP-10	RED
MIN-LP-15	BLUE
MIN-LP-20	YELLOW
MIN-LP-25	CLEAR
MIN-LP-30	GREEN
MIN-LP-40	ORANGE

**MICRO-2 FUSES**

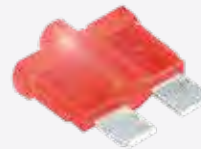
IES#	AMP
MCR-5	5
MCR-7.5	7.5
MCR-10	10
MCR-15	15
MCR-20	20
MCR-25	25
MCR-30	30

MICRO-3 FUSES

IES#	AMP
MCR3-5	5
MCR3-7.5	7.5
MCR3-10	10
MCR3-15	15

"SMART GLOW" FUSES

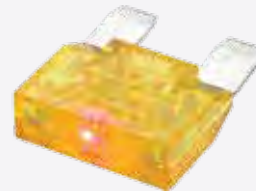
12V & 32V – Lights up when fuse blows

**ATC (LED)**

IES#	AMP
ATC5-BG	5
ATC7.5-BG	7.5
ATC10-BG	10
ATC15-BG	15
ATC20-BG	20
ATC25-BG	25
ATC30-BG	30

**MINI (LED)**

IES#	AMP
MIN5-BG	5
MIN7.5-BG	7.5
MIN10-BG	10
MIN15-BG	15
MIN20-BG	20
MIN25-BG	25
MIN30-BG	30

**MAXI (LED)**

IES#	AMP
MAX20-BG	20
MAX25-BG	25
MAX30-BG	30
MAX35-BG	35
MAX40-BG	40
MAX50-BG	50
MAX60-BG	60
MAX70-BG	70
MAX80-BG	80
MAX100-BG	100



IE-580
STANDARD BLADE
FUSE PULLER



FUSE PULLER /TESTER
IES# 097019

Can be used in fuse block to test and replace ATO and Mini blade fuses. Indicator light glows bright green when fuse is good.



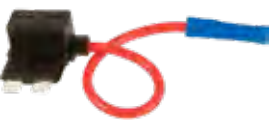
GLASS FUSES

PAL 20 - 120 AMP AVAILABLE

					
AGA	AGC	SFE	GBC	MDA	AGU
AGA-1	AGC-.5	SFE-4	GBC-5 (YELLOW)	MDA-1	AGU-1
AGA-1.5	AGC-1	SFE-6	GBC-8 (WHITE)	MDA-2	AGU-2
AGA-2	AGC-1.5	SFE-7.5	GBC-16 (RED)	MDA-3	AGU-3
AGA-3	AGC-2	SFE-9	GBC-25 (BLUE)	MDA-5	AGU-4
AGA-5	AGC-2.5	SFE-14	—	MDA-10	AGU-5
AGA-6	AGC-3	SFE-20	—	MDA-15	AGU-10
AGA-7.5	AGC-4	SFE-30	—	—	AGU-15
AGA-10	AGC-5	—	—	—	AGU-20
AGA-15	AGC-6	—	—	—	AGU-25
AGA-20	AGC-7.5	—	—	—	AGU-20
AGA-25	AGC-10	—	—	—	AGU-40
AGA-30	AGC-15	—	—	—	AGU-50
—	AGC-20	—	—	—	—
—	AGC-30	—	—	—	—
—	AGC-35	—	—	—	—

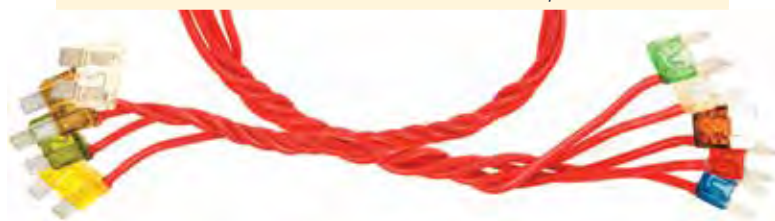
"ADD-A-FUSE"

Add-A-Circuit allows easy installation of additional circuits without cutting or splicing. Turns one fuse slot into two while providing protection for both circuits.

				
AAC/ATC IES# AAC-ATC (Fuses up to 10 amps)	AAC MINI IES# AAC-MIN (Fuses up to 10 amp)	MICRO 2 IES# AAC-MCR2	MICRO 3 IES# AAC-MCR3	MINI LOW PROFILE IES# AAC-MINLP
				

FUSES WITH PIGTAIL

Safer and more reliable than standard fuse taps.



ATO STYLE	MINI FUSE STYLE	MICRO-2
ATC-5-PT	MIN-5-PT	MCR2-5-PT
ATC-10-PT	MIN-10-PT	MCR2-7.5-PT
ATC-20-PT	MIN-15-PT	MCR2-10-PT
ATC-30-PT	MIN-20-PT	MCR2-15-PT
	MIN-25-PT	MCR2-20-PT
	MIN-30-PT	MCR2-25-PT
		MCR2-30-PT

Fuses with built in wire, Red 16 gauge, (7.5" Lead).

FUSE TAPS

ATO/ATC		
	A50-ATO (STANDARD)	A50-ATO-S (SLOTTED)
MINI		
	A50-MIN (STANDARD)	A50-MIN-S (SLOTTED)



AGC FUSE CLIPS

A50-AGC-H
(HALF-CLIP)# A50-AGC-F
(FULL-CLIP)

**MIDI HIGH-AMP FUSES**

32 VDC

AMP	BLACK HOUSING	CLEAR HOUSING
30	MIDI-30	MIDI-30C
40	MIDI-40	MIDI-40C
50	MIDI-50	MIDI-50C
60	MIDI-60	MIDI-60C
70	MIDI-70	MIDI-70C
80	MIDI-80	MIDI-80C
100	MIDI-100	MIDI-100C
125	MIDI-125	MIDI-125C
150	MIDI-150	MIDI-150C
175	MIDI-175	MIDI-175C
200	MIDI-200	MIDI-200C

**MIDI HIGH-CURRENT FUSES**

70 VDC

AMP	IES#
50	MIDI-50HP
60	MIDI-60HP
70	MIDI-70HP
80	MIDI-80HP
100	MIDI-100HP
125	MIDI-125HP
150	MIDI-150HP
175	MIDI-175HP
200	MIDI-200HP

**AMI BOLT-DOWN FUSES**

32 VDC

AMP	IES#
30	AMI-30
40	AMI-40
50	AMI-50
60	AMI-60
80	AMI-80
100	AMI-100
125	AMI-125
150	AMI-150
200	AMI-200

**AMG SERIES**

AMP	IES#
100	AMG-100
125	AMG-125
150	AMG-150
175	AMG-175
200	AMG-200
225	AMG-225
250	AMG-250
300	AMG-300
500	AMG-500

**MEGA "BOLT-ON" FUSE**

32 VDC

AMP	IES#
100	MEG-100
125	MEG-125
150	MEG-150
175	MEG-175
200	MEG-200
225	MEG-225
250	MEG-250
400	MEG-400

**MEGA HIGH PERFORMANCE FUSE**

120 VDC

AMP	IES#
60	MEG-HP-60
80	MEG-HP-80
100	MEG-HP-100
150	MEG-HP-150
175	MEG-HP-175
200	MEG-HP-200
250	MEG-HP-250
300	MEG-HP-300
400	MEG-HP-400

**MIDI FUSE HOLDER**

IES# BLC-6

**MEGA FUSE BLOCK**

IES# BLC-07B

**FLEX STYLE**

IES# BLC-10

Fuse block w/flex-soft cover, 500 amp, 250 VDC

**MEGA SEALED FUSED BLOCK**

IES# 880014

60 VDC, 500 AMP

PAL FEMALE

High Amp Fuses



IES#/AMP	COLOR
PAL-F-20	LT BLUE
PAL-F-30	PINK
PAL-F-40	GREEN
PAL-F-50	RED
PAL-F-60	YELLOW

PAL MINI FEMALE

High Amp Fuses



IES#/AMP	COLOR
PALM-F-30	PINK
PALM-F-40	GREEN

PAL BOLT-MOUNT

HIGHT AMP FUSES



IES#/AMP	COLOR
PAL-BM-30	PINK
PAL-BM-40	GREEN
PAL-BM-50	RED
PAL-BM-60	YELLOW
PAL-BM-70	BROWN
PAL-BM-80	BLACK
PAL-BM-100	BLUE
PAL-BM-120	LT GREY

JCASE LOW-PROFILE

High Amp



IES#/AMP	COLOR
JCASE-LP-20	LT BLUE
JCASE-LP-25	NATURAL
JCASE-LP-30	PINK
JCASE-LP-40	GREEN
JCASE-LP-50	RED
JCASE-LP-60	YELLOW

JCASE FUSE HOLDER

40 Amp Max



4" LEADS 8 GAUGE WIRE

STANDARD	FH-JCASE
LOW PROFILE	FH-JCASE-LP

MCASE FUSE



IES#	AMP
MCASE-15	15
MCAS-20	20
MCASE-25	25
MCASE-30	30
MCASE-40	40

MCASE (SLOTTED)

High Amp Fuses



IES#/AMP	COLOR
MCAS-S-15	GREY
MCAS-S-20	BLUE
MCAS-S-25	WHITE
MCAS-S-30	PINK
MCAS-S-40	GREEN
MCAS-S-50	RED
MCAS-S-60	YELLOW

ZCASE FUSES

(M10 HOLE)



IES #	AMP
ZCASE-80	80
ZCASE-100	100
ZCASE-125	125
ZCASE-150	150
ZCASE-200	200
ZCASE-225	225
ZCASE-250	250
ZCASE-300	300
ZCASE-350	350
ZCASE-400	400
ZCASE-500	500
ZCASE-600	600

FMM AUTOMOTIVE FUSE



IES #/AMP	COLOR
FMM-15	GREY
FMM-20	BLUE
FMM-25	WHITE
FMM-30	PINK
FMM-40	GREEN

JCASE (FEMALE)

High Amp Fuses



IES#/AMP	COLOR
JCASE-20	LT BLUE
JCASE-30	PINK
JCASE-40	GREEN
JCASE-50	RED
JCASE-60	YELLOW



**BEST
SELLING
FUSE KITS**

FMM FUSE KIT



IES# FMM-K25
25 Pieces | 5 Each
15, 20, 25, 30, 40 amp fuses

MCASE SLOTTED KIT



IES# MCSK-36
36 Pieces | 5 Each
15, 20, 25, 30, 40, 50, 60 amp
fuses (plus 1 fuse puller tool)

JCASE FUSE KIT



IES# JCASKT-60
60 Pieces | 5 Each
Standard & Low Profile
20, 25, 30, 40, 50, & 60 amp fuses

MCASE KIT



IES# MCK-36
36 Pieces | 5 Each
15, 20, 25, 30, 40, 50, 60 amp
fuses (plus 1 fuse puller tool)

MINI



FPMC-14

In-line fuse holder with protective cap. Use with mini fuse 2 - 20 amps. Supplied with two 4" wire leads of 14 gauge black wire. Includes protective cover for harsh environment



FPMC-12

Heavy duty in-line panel mount fuse holder with protective cap. Use with mini fuse 25 and 30 amp fuses. Supplied with two 4" wire leads of 12 gauge orange wire. Includes protective cover for harsh environments.



FHWRM-15

Water/ weather proof mini fuse holder. Sealed. 6" 14 Gauge leads. For use with 5 - 15 amp fuses. Mounting bracket.



FHWRM-30

Water/ weather proof. Sealed. Mini fuse holder. 10 Gauge leads. For use with 15 - 30 amp fuses. Mounting bracket.

MAXI



MAH-1

In line fuse holder with protective cap. Use with maxi fuse up to 60 amps. Supplied with two 6" wire leads of 6 gauge black wire. Includes protective cover for harsh environment and mounting hole for easy firewall installation.

ATO/ATC



FHWR30-18

Water/weather proof, sealed, 18 gauge leads 5-10 amp



FHWR30-16

Water/weatherproof, sealed, 2 x 16 gauge wires 6" leads. 10-20 amps

ATO/ATC



FHA-16

Use with ATO fuse 1 - 20 amps. Supplied with two 4" wire leads of 16 gauge black wire.



FHA-12

Use with ATO 25 and 30 amp fuses for air conditioner or other heavy duty applications. Supplied with two 4" wire leads of 12 gauge orange wire. FHA 30 includes 30 amp fuse.



FHAC-16

Weather resistant. Use with ATO fuse 1 - 20 amps. Supplied with two 4" wire leads of 16 gauge black wire. Includes protective cover for harsh environment.



FHAC-12

Weather resistant. Use with ATO 25 and 30 amp fuses for air conditioner or other heavy duty applications. Supplied with two 4" wire leads of 12 gauge orange wire. Includes protective cover for harsh environment.



FHWR-10T

Water/weather proof. Sealed. 6"/12 gauge leads. For use with 30 - 40 amp fuses. Mounting bracket.



FHWR-30-12T

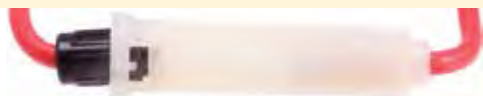
Heavy-duty water/weather proof. Sealed. 6"/12 gauge leads. For use with 30 - 40 amp fuses. Mounting bracket.



FHWR30-14T

Water/weather proof, sealed, two 12"/14 gauge tinned leads (red). For use with 20 - 30 amp fuses.

AGC



FH-20

In-line fuse holder for AGC fuses up to 20 amps, spring-loaded, 3-3/4" length - 14 gauge red leads from each end.



FH-AGC

Crimpable weather resistant in-line fuse holder.



FWHP-AGC

Crimpable water proof in-line fuse holder.

MICRO-2



FWHMC2-14

In-line W/cap. 2 - 5" 14 gauge leads (red) for 20 amp fuses. (Use part# FWHMC2-12 for Micro fuse up to 30 amp).
*Also available in 16 & 10 gauge

MICRO-3



FWHMC3-14

In-line W/cap 2- 5" 14 GA leads(red) for all amp sizes in Micro3.
*Also available in 16 & 10 gauge

RELAYS



IES# 8981CHD1SWR1U05

50 AMP, 12VDC, W/RESISTOR SEALED-SHROUD, .5x2.8 MM (110 PINS)



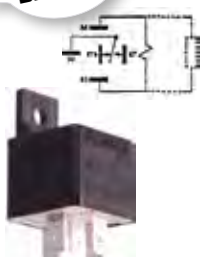
IES# H184708804

PIGTAIL RELAY HARNESS CONNECTOR-ISO280 5 X 12" LEADS FOR USE WITH SONG CHUAN #898-1CH-D1SW-R1-U05-12VDC

IES features an extensive relay selection. Scan QR to visit relay page.



BEST SELLER!



VF-4

12V, 30/40 AMP, 5 PRONG, .250 TAB, SPDT, W/BACKET

BEST SELLER!



VF-SH (WATERPROOF)

12V, 30/40 AMP, 5 PRONG, .250 TAB, W/BACKET & SHROUD



VF-24

24V, 20/30 AMP, .250 TAB, 5 PRONG, SPDT, (ADD "B" FOR BACKET)



VF-70

12 V, 70 AMP, SPST, (2) 375 TAB, (2) 250 TAB, W/RESISTOR, NO BACKET



VF-50

12V, SPST, 50 AMP, (2) 3/8" TAB, (2) 1/4" TAB, W/RESISTOR & BACKET



#VWH4-1001

5 POSITION, 16 GAUGE HARNESS FOR 5 PRONG RELAYS (12" LEADS)



VWH4-1002-SH

WATERPROOF RELAY HARNESS, (2) 14 GA, (3) 16 GA (12" LEADS), USE WITH VF4-SH RELAY



VWH4-1002

HD 5 POSITION RELAY HARNESS W/BACKET STACKABLE FOR ROW CREATION.



871-1C-C-R1-U1

MICRO RELAY, 20/25 AMP, 12V, SPDT, SONG CHUAN



VF-4-R

20/40 AMP, 12V, SPDT (5), .250 TAB, W/DIODE



LOW-PROFILE MINI

STANDARD MINI



NON-INDICATING W/COVER	INDICATING W/COVER	NON-INDICATING W/COVER	INDICATING W/COVER
BLS-310 10 SLOTS	BLS-1-310 10 SLOTS	BLM-304 4 SLOTS	BLM-I-304 4 SLOTS
—	—	BLM-306 6 SLOTS	BLM-I-306 6 SLOTS
—	—	BLM-310 10 SLOTS	BLM-I-310 10 SLOTS

ATC



NON-INDICATING W/GROUND	NON-INDICATING	NON-INDICATING W/COVER	INDICATING W/COVER
BLC-106-G 6 SLOTS	BLC-106 6 SLOTS	BLR-304 4 SLOTS	BLR-I-304 4 SLOTS
BLC-108-G 8 SLOTS	BLC-108 8 SLOTS	BLR-306 6 SLOTS	BLR-I-306 6 SLOTS
BLC-110-G 10 SLOTS	BLC-110 10 SLOTS	BLR-310 10 SLOTS	BLR-I-310 10 SLOTS
BLC-112-G 12 SLOTS	BLC-112 12 SLOTS	—	—

ATC/ATO TYPE III
RESET CIRCUIT BREAKER

IES#	AMP
RCB3-5	5
RCB3-7.5	7.5
RCB3-10	10
RCB3-15	15
RCB3-20	20
RCB3-25	25
RCB3-30	30

ATC/ATO TYPE 1
RESET CIRCUIT BREAKER

IES#	AMP
RCB1-5	5
RCB1-10	10
RCB1-15	15
RCB1-20	20
RCB1-25	25
RCB1-30	30

MAXI



NON-INDICATING

INTERLOCKING

BLX-01 SINGLE SLOT

ASC/ATO FUSE BLOCK
(W/COVER)

LED INDICATOR 12/24V M4 Screw



IES#	POSITION
ATCFB-4C-L	4
ATCFB-6C-L	6



ANN FUSES

80 V-DC RSV-AC

IES#	AMPS
ANN-10	10
ANN-35	35
ANN-40	40
ANN-50	50
ANN-60	60
ANN-80	80
ANN-90	90
ANN-100	100
ANN-125	125
ANN-150	150
ANN-175	175
ANN-200	200
ANN-225	225
ANN-250	250
ANN-300	300
ANN-350	350
ANN-400	400
ANN-500	500

ANL FUSES

80V-DC 32V-AC

IES#	AMP
ANL-10	10
ANL-40	40
ANL-50	50
ANL-60	60
ANL-80	80
ANL-100	100
ANL-150	150
ANL-175	175
ANL-200	200
ANL-225	225
ANL-250	250
ANL-300	300
ANL-350	350
ANL-400	400
ANL-500	500
ANL-600	600
ANL-675	675
ANL-750	750

ATM MINI TYPE III CIRCUIT BREAKERS

.280 Type, UL94V0, Thermoplastic Housing,
SAE 3553/28VDC, Manual Reset



IES#	AMP	COLOR
23305-00	5	TAN
23375-00	7.5	BROWN
23310-00	10	RED
23315-00	15	BLUE
23320-00	20	YELLOW
23325-00	25	WHITE
23330-00	30	GREEN

**ATM CIRCUIT BREAKER**

14 VDC - ISO 280-SAE J553

AUTO RESET TYPE 1	AMP	NON-CYCLING TYPE 2
21105-00	5	21205-00
21175-00	7.5	21275-00
21110-00	10	21210-00
21115-00	15	21215-00
21120-00	20	21220-00
21125-00	25	21225-00
21130-00	30	21230-00

**ANN/ANL FUSE HOLDER & BOOTS**

- L RATED 94 +10
- FUSE MOUNTED StudS 5/16" +18" 1.25" ZINC PLATED STEEL

IE PART#

ANN-L-FH

ANN-L-BT
(With boots)**AUTOMATIC RESET "CYCLING" CIRCUIT BREAKERS**

6-12-24 VDC, 5-60 amp. 10-32 Stud. Complete with nuts and washers.

STYLE "A"
(W/o bracket)**IES#/AMP**

CB-15

CB-20

CB-30

CB-30

CIRCUIT BREAKER JUMPER
IES# CBJ-1STYLE "B"
(Cross bracket)**IES#/AMP**

CB-5B

CB-10B

CB-15B

CB-20B

CB-25B

CB-30B

CB-40B

CB-45B

CB-50B

STYLE "BA"
Parallel Bracket**IES#/AMP**

CB-15A

CB-20BA

CB-30BA

CB-35BA

CB-40BA



PLUG IN (Terminal Type) 12-14V

IES#/AMP

UCB-5

UCB-10

UCB-15

UCB-20

UCB-25

UCB-30

MINI STYLE
(Type 2, Mod. Reset)**IE/AMP**

MNB-10

MNB-15

MNB-25

MNB-30

MINI STYLE
(Type 2, Footprint)**IES#/AMP**

MIB-5

MIB-10

MIB-15

MIB-20

MIB-25

MIB-30

CIRCUIT BREAKER (TYPE 1)

12V, 12-32 Stud (IP66 rated) PVC Body

AMP	NO BRACKET IES#	IN-LINE BRACKET IES#	RIGHT ANGLE BRACKET
10	CB-10P	CBIL-10P	CBRA-10P
15	CB-15P	CBIL-15P	CBRA-15P
20	CB-20P	CBIL-20P	CBRA-20P
25	CB-25P	CBIL-25P	CBRA-25P
30	CB-30P	CBIL-30P	CBRA-30P
40	CB-40P	CBIL-40P	CBRA-40P
50	CB-50P	CBIL-50P	CBRA-50P

KEP nuts includes with all circuit breakers

COLOR CODED CIRCUIT BREAKERS

Type 1 Short Stop 32 VDC Auto Reset



AMPS/COLOR	NO BRACKET	IN-LINE BRACKET	HORIZONTAL BRACKET
10 (GREY)	ACBP-N-10C	ACBP-V-10C	ACBP-H-10C
15 (BLUE)	-	ACBP-V-15C	ACBP-H-15C
20 (YELLOW)	ACBP-N-20C	ACBP-V-20C	ACBP-H-20C
25 (WHITE)	ACBP-N-25C	ACBP-V-25C	ACBP-H-25C
30 (GREEN)	ACBP-N-30C	ACBP-V-30C	ACBP-H-30C
40 (ORANGE)	ACBP-N-40C	ACBP-V-40C	ACBP-H-40C
50 (RED)	ACBP-N-50C	ACBP-V-50C	ACBP-H-50C

SOLID STATE POLYSWITCH

2.8 mm Terminals/PTC Resistance Switching Action



IES#	AMP	COLOR
SSP-10	10	RED
SSP-15	15	BLUE
SSP-20	20	YELLOW
SSP-25	25	WHITE
SSP-30	30	GREEN
ATMCB-25	25	WHITE
ATMCB-30	30	GREEN

**CIRCUIT BREAKER BOOTS**

- Insulated circuit breakers
- Red for power leads
- Yellow for marine
- Breakers with or W/o brackets

IES#	COLOR
CBB-YLW	YELLOW
CBB-RED	RED

SHORT STOP TYPE II (NON CYCLING)

- Applications where unit resets only when power is removed
- Hardware included
- 12 Volt

IES#	AMP
SSCB-6	6
SSCB-8	8
SSCB-10	10
SSCB-15	15
SSCB-20	20
SSCB-25	25
SSCB-30	30
SSCB-40	40
SSCB-50	50

MANUAL RESET TYPE III

- Push button manual reset
- 10-32 Stud terminals
- Hardware included
- 24V-SAE J553

IES#	AMP
CBMR-10	10
CBMR-15	15
CBMR-20	20
CBMR-30	30
CBMR-40	40
CBMR-50	50

CIRCUIT BREAKER BRACKETS

For non-bracket metal breakers

IES#	GAUGE
CBRK-2	2
CBRK-3	3
CBRK-4	4
CBRK-6	6
CBRK-8	8

MAXI CIRCUIT BREAKERS

24 V SAE J553



AUTOMATIC: RESET TYPE I		MANUAL: RESET TYPE III	
IES#	AMP	IES#	AMP
MCBA-20	20	MCBM-20	20
MCBA-30	30	MCBM-30	30
MCBA-40	40	MCBM-40	40
MCBA-50	50	MCBM-50	50

CIRCUIT BREAKER BUS BAR

BRASS-TIN PLATED



IES#	AMP
CBBR-2	2
CBBR-3	3
CBBR-4	4
CBBR-6	6
CBBR-8	8

LOW PROFILE ATC CIRCUIT BREAKERS

28V, SAE J553, SAE J1284



IES#	AMP	COLOR
LPA-CB-5	5	TAN
LPA-CB-6	6	GREEN
LPA-CB-7.5	7.5	BROWN
LPA-CB-10	10	RED
LPA-CB-20	20	BLUE
LPA-CB-25	25	WHITE
LPA-CB-30	30	LT. GREEN



THERMAL CIRCUIT BREAKERS

Push to Reset, Marine rated 250 VAC - 50 VDC



57 SERIES (1/4" Tab)		58 SERIES (#10 screw)
IES#	AMP	IES#
MPRBC-5	5	MPRBC-58-5
MPRBC-10	10	MPRBC-58-10
MPRBC-15	15	MPRBC-58-15
MPRCB-20	20	MPRCB-58-20
MPRCB-25	25	MPRCB-58-25
MPRCB-30	30	MPRCB-58-30

SERIES 18 IGNITION PROOF PANEL MOUNT CIRCUIT BREAKERS

32 VDC 8-32 SCREW ABYC



AMP	IES #	AMP	IES #
10	1800-10	40	1800-40
15	1800-15	50	1800-50
20	1800-20	60	1800-60
30	1800-30	70	1800-60

**CLEAR BOOT**

#CBW-8-DC-11

SERIES 19 CIRCUIT BREAKERS

30 VDC - 1/4-28 STUDS



TYPE 1 AUTO RESET w/RED LED TRIP			TYPE 3 MANUAL RESET		TYPE 3 MANUAL RESET w/RED TRIP ID LED	
AMP	IES#		AMP	IES#	AMP	IES#
50	19A-P10-R-050-02		50	19M-P10-B-50-02	60	19M-P10-R-060-02
60	19A-P10-R-060-02		60	19M-P10-B-60-02	70	19M-P10-R-070-02
70	19A-P10-R-070-02		70	19M-P10-B-70-02	90	19M-P10-R-080-02
105	19A-P10-R-105-02		80	19M-P10-B-80-02	105	19M-P10-R-105-02
120	19A-P10-R-120-02		90	19M-P10-B-90-02	120	19M-P10-R-120-02
-	-		105	19M-P10-B-105-02	150	19M-P10-R-150-02
-	-		120	19M-P10-B-120-02	-	-
-	-		150	19M-P10-B-150-02	-	-

SERIES 17 EASY ACCESS PANEL MOUNT CIRCUIT BREAKERS

1P67 - ABYC - 48 vdc Sealed - Trip Free Operation • 1/4" panel mount studs



AMPS	IES#
50	175-P1-050-2
60	175-P1-060-2
80	175-P1-80-2
100	175-P1-100-2
120	175-P1-120-2
150	175-P1-150-2

JUNCTION BLOCK STUDS

12 V



STUD	AMP	BLACK	RED	KIT/SET (RED/BLACK)
1/4"	100	STJB-14B	STJB-14R	STJB-14RB
5/16"	250	STJB-56B	STJB-56R	STJB-56RB
3/8"	250	STJB-38B	STJB-38R	STJB-38RB
1/2"	250	STJB-12B	STJB-12R	STJB-12RB

HD JUNCTION BLOCKS

300 LB 1/2" - 13 1.5" LONG



STJHD-R (RED) STJHD-B (BLACK)

**BUSS BARS**STANDARD
48 VDC/300 VACHEAVY DUTY
3/16" MOUNTING - 3/8-16 STUDSTERMINAL BLOCK GANG
1/4" thread/150 amp

AMPS	GANG	STUD	IES#	COVER #	GANG	SIZE	IES#	GANG	IES #	COVER#
100	4	10 - 32 THREADED STUD	2305	2713	4	4 X 5/16	880118	10	2301	2715
150	4	1/4" - 20 THREADED STUD	2303	2715	4	4 X 3/8	880100	20	2302	-
600	4	3/8" - 16 THREADED STUD	2104	-	2	2 X 2/8	880097	20	2312	INCLUDED
100	5	MINI BUSS BAR 10-32 THREADED STUD	2304	2713	-	-	-	-	-	-
600	8	3/8"-16 THREADED STUD	2107	-	-	-	-	-	-	-





TYPE : AUTOMATIC RESET

**PANEL MOUNT**

141 Series (42VDC)

**SURFACE MOUNT**

151 Series (42VDC)

**SURFACE MOUNT 351 SERIES**

3/8" STUD

IES#	AMP	IES#	AMP	IES#	AMP
HBP141-30	30	HBS151-50	50	HBS-351-60	60
HBP141-40	40	HBS151-60	60	HBS-351-80	80
HBP141-50	50	HBS151-70	70	HBS-351-120	120
HBP141-60	60	HBS151-80	80	HBS-351-150	150
HBP141-70	70	HBS151-90	90	HBS-351-175	175
HBP141-80	80	HBS151-100	100	HBS-351-300	300
HBP141-90	90	HBS151-120	120	—	—
HBP141-100	100	HBS151-135	135	—	—
HBP141-120	120	HBS151-150	150	—	—
HBP141-135	135	—	—	—	—
HBP141-150	150	—	—	—	—

TYPE 3: MANUAL RESET

**PANEL MOUNT**

143 SERIES (58 VDC)

**SURFACE MOUNT**

153 SERIES (58 VDC)

**SURFACE MOUNT**

153 SERIES (3/8" STUD - Available 25-300 AMP)

IES#	AMP	IES#	AMP	IES#	AMP
HBP143-30	30	HBP153-50	50	HBP-353-25	25
HBP143-40	40	HBP153-60	60	HBP-353-30	30
HBP143-50	50	HBP153-70	70	HBP-353-40	40
HBP143-60	60	HBP153-80	80	HBP-353-50	50
HBP143-70	70	HBP153-90	90	HBP-353-60	60
HBP143-80	80	HBP153-100	100	HBP-353-70	70
HBP143-90	90	HBP153-120	120	HBP-353-80	80
HBP143-100	100	HBP153-135	135	HBP-353-90	90
HBP143-120	120	HBP153-150	150	HBP-353-100	100
HBP143-135	135	HBP153-180	180	HBP-353-120	120
HBP143-150	150	HBP153-200	200	HBP-353-150	150
HBP143-180	180	HBP153-250	250	HBP-353-180	180
HBP143-200	200	—	—	HBP-353-200	200



SINGLE POLE

12V, 20 AMP, .687" LEVER, .500" MOUNTING HOLE

**BLADE .250**

IES#	OPERATION	TERM
12-100	OFF/ON	2
12-101	OFF/M/ON	2
12-102	ON/ON	3
12-103	ON/OFF/ON	3
12-104	MOM-ON/OFF/ MOM-ON	3

**SCREW #6**

IES#	OPERATION	TERM
12-100S	OFF/ON	2
12-101S	OFF/ON	2
12-102S	ON/ON	3
12-103S	ON/OFF/ON	3
12-104S	MOM-ON/OFF/ MOM-ON	3

SINGLE POLE

12V, 50 AMP, SUPER HEAVY-DUTY

**1.1" LEVER**

IES#	OPERATION	TERM	LEVEL COLOR
12-121	OFF/ON	2	CHROME
12-121B			BLACK
12-122	ON/OFF/ON	3	CHROME
12-122B			BLACK
12-123	MOM-ON/OFF/ MOM-ON	3	CHROME
12-123B			BLACK

**SCREW #8****SEALED SINGLE POLE**

12V 20 AMP HD .687 LEVER .500 MOUNTING HOLE

**BLADE .250**

IES#	OPERATION	TERM
13-100	OFF/ON	2
13-101	OFF/ON	2
13-102	OFF/ON/OFF	3
13-103	MOM-ON/ OFF/MOM-ON	3
13-104	ON/ON	3

**SCREW #6**

IES#	OPERATION	TERM
13-100S	OFF/ON	2
13-101S	OFF/M/ON	2
13-102S	ON/OFF/ON	3
13-103S	MOM-ON/ OFF/MOM-ON	3
13-104S	ON/ON	3

SEALED SINGLE POLE

12V 50 AMP SUPER HEAVY-DUTY

**1.1" LEVER**

IES#	OPERATION	TERM	LEVEL COLOR
13-121	OFF/ON	2	CHROME
13-121B			BLACK
13-122	ON/OFF/ON	3	CHROME
13-122B			BLACK
13-123	MOM-ON/ OFF/ MOM-ON	3	CHROME
13-123B			BLACK

**SCREW #8****LIGHTED LEVER**

OFF/ON, 12V, 20AMP, .250 TERM, .500" MOUNTING HOLE, LIGHTS WHEN "ON"



IES#	LIGHT COLOR
11-115	RED
11-116	GREEN
11-117	AMBER
11-118	BLUE

TRIPLE SEALED (LED TIP)Off-on single pole
12v 300 amp .500 mount

IES#	LED
13-140	RED
13-141	GREEN
13-142	BLUE

BOOT : IES# 19-505)**DOUBLE POLE**

12V 20 amp HD .500 mount

**.250 BLADE**

IES#	OPERATION	TERMINALS	IES#	OPERATION
13-200	OFF-ON	4	13-200ST	OFF-ON
13-201	OFF-MOM-ON	4	13-201ST	OFF-MOM-ON
13-210	OFF-ON-OFF	6	13-210ST	OFF-ON-OFF
13-211	MOM ON-OFF- MOM ON	6	13-211ST	MOM ON -OFF- MOM ON
13-212	ON-ON	6	13-212ST	ON - ON

**SCREW#6**

**ROCKER SWITCHES – NON LIGHTED**

12V, 20 AMP, .250 BLADE

IES#	OPERATION	TERMINAL
14-100	OFF/ON	2
14-101	OFF/MOM/ON	2
14-102	ON/ON	3
14-103	ON/OFF/ON	3
14-104	MOM-ON/OFF/MOM-ON	3

**WITH RED "ON" INDICATOR**

IES#	OPERATION
14-114	OFF/ON
2 TERMINAL .250	

**ROUND ROCKER SWITCHES**

12V - 20 AMP - .187 BLADE

IES #	DESC
14-230	OFF/ON BLACK
14-231	OFF/ON RED LED
14-232	OFF/ON YELLOW LED
14-233	OFF/ON AMBER LED
14-234	OFF/ON BLUE LED
14-235	OFF-MOM-ON (NO LED)
14-236	OFF-MOM-ON W/MARKINGS
14-237	ON-OFF W/MARKINGS
14-239	ON-OFF RED (NO LED)

**PUSH BUTTON OFF/MOM-ON HD**12V 6 AMP #8 TERM .625
MOUNTING W/BLACK BOLT
IES# 15-100**HD IGNITION SWITCHES**12VDC 3 POS ACC/OFF/ON 8-32 STUD
IES# 16-111**HD PUSH PULL SWITCH**6-28 V DC 75 AMP #8 SCREW
5-0 MOUNTING HOLE
IES# 16-140 (STANDARD)
IES# 16-1405 (SEALED)**4 POSITION
ACC-OFF-ON START**10-32 STUD
ES # 16-112

Carling Technologies™

CONTRA II ROCKER SWITCHES

INTERNAL SEALED 12V 20 AMPS

INCANDESCENT LIGHTING .250 TABS 150,000 CYCLE

NON-ILLUMINATED		ILLUMINATED (OFF/ON ONLY)	
IES#	OPERATION	IES#	LENS COLOR
14-500	OFF/ON	14-520	RED
14-501	OFF/MOM-ON	14-521	GREEN
14-502	ON/OFF/ON	14-522	AMBER
14-503	MOM-ON/OFF/ON	14-523	BLUE
14-504	ON/ON	14-524	WHITE
14-505	OFF/ON1-ON2	14-525	CLEAR
14-506	OFF/ON-MOM-ON2	-	-

**MASTER BATTERY
CUT OFF SWITCH**3/8 terminal Studs. Cont: 300 amp. Crank: 10 sec.
1500 amp intermittent. : 5 min - 50 amp

IES# 16-125	SINGLE BATTERY
IES# 16-126	DUAL BATTERY



Continuous Solenoids



Intermittent Solenoids

SOLENOIDS

- #10-32 thread & 5/16" Stud post
- Hex nut & washers included
- Insulated solenoids have Studs that are electrically isolated from the housing
- Grounded solenoids have one of the Studs internally connected to the housing

CONTINUOUS SOLENOIDS

PART #	GROUND/INSULATED	VOLTS	CONTINUOUS CURRENT RATING	MAKE/BREAK AMP RATING	HOUSING TYPE
24106	GROUND	12	85	85/85	PLATED STEEL
24124	GROUND	24	85	120/65	PLATED STEEL
24059	GROUND	12	85	85/85	PLATED STEEL
24117	INSULATED	12	85	85/85	WEATHERPROOF PLASTICIZED STEEL
24063	INSULATED	24	85	120/65	PLATED STEEL
24200 (LATCHING)	INSULATED	12	110	85/85	PLATED STEEL
24063-08	INSULATED	24	65	65/65	WEATHERPROOF PLASTICIZED STEEL
24001	INSULATED	12	85/35	85/35	PLATED STEEL
24143	INSULATED	12	200	200	PLATED STEEL

INTERMITTENT SOLENOIDS

PART #	GROUND/INSULATED	VOLT	MAKE/BREAK AMP RATING	INTERMITTENT TIME	HOUSING TYPE
24022	GROUND	12 24	750/100	10 SEC ON/ 20 MIN OFF	PHENOLIC
24037	GROUND	12	750/100	10 SEC ON/ 20 MIN OFF	STEEL
24071	GROUND	12	750/100	10 SEC ON/ 20 MIN OFF	WEATHERPROOF PLASTICIZED STEEL
24047	INSULATED	12	750/100	10 SEC ON/ 20 MIN OFF	STEEL
24076	INSULATED	12	750/100	10 SEC ON/ 20 MIN OFF	WEATHERPROOF PLASTICIZED STEEL
24008	INSULATED	24	120/65	10 SEC ON/ 20 MIN OFF	STEEL

ENGINE START/STOP MOMENTARY SWITCHES

- Die Cast housing w/knuled aluminum face nut
- Two screw terminals w/lock washers
- Mounting stem 7/8" - 24 thread keyed to prevent switch turn
- 12v/35 amp, 24v/20 amp

PART# 90047
(Black Start Button)PART# 90048
(Red Start button)

ECCO

BEST SELLER!



BACK-UP ALARM

ECCO 500 Series 12/24V 97 dB
Sound Level Surface Mount
Back-Up Alarm

IES #520

Pollak®

MASTER DISCONNECT SWITCHES

6-36V (POLLAK)

LEVER OPERATED



PART # 51-902

- SPST off-on for battery circuit only
- Does not disconnect alternator or generator
- 3/8" Stud terminals
- UL558

LEVER OPERATED



PART # 51-904EP

- DPST on-off for battery, alternator, or generator circuit
- Breaks alternator circuit (max of 20 amps) prior to disconnecting battery
- 3/8" & #10-32 Stud terminals

KEY OPERATED



PART# 51-916

- SPST off-on for battery circuit only
- Does not disconnect alternator or generator
- Includes indexing post to prevent rotation
- 3/8" Stud terminals
- UL558

FACE PLATE



- Polished aluminum
- Part# 51-303 for lever operated switches
- Part# 51-322 for key operated switches

BATTERY DISCONNECT SWITCHES

- 12-24 VDC (185 F/85 c - 40 F/40 c)
- Designed to minimize battery drain, increase safety, and provide theft protection when used with padlock
- Lock compatibility allows operators to lock out the power
- Mounting: M8 • Off /ON • Sealed IP67



PART #	AMP
BDB14-RA	300
BDA10RA	250

HEAVY-DUTY ROTARY REVERSING SWITCH

- 50 amp/ DPDT
- Allows forward/reverse motion of motor without need for a relay
- Heavy-duty components, 3/32" thick terminals, silver laminated contacts
- 10-32 (9.5 mm) terminal screws w/lockwasher
- Ideal for headlamp rotary & fuel tank



PART# 75712-04



SOCKET



PLUG

PLUG
W/CABLE GUARD

TRAILER CONNECTORS

TYPE	SOCKET#	PLUG#	PLUG W/CABLE GUARD#	VOLT/AMP
4 WAY	TC-4S	TC-4P	TC4P-CG	12-24V 35 AMP
5 WAY (CHROME)	TC5S-C	TC5P-C	—	12-24V 15 AMP
6 WAY	TC-6S	TC-6P	TC6P-CG	12-24V 35 AMP
7 WAY	TC-7S	TC-7P	TC7P-CG	6-28V 40 AMP

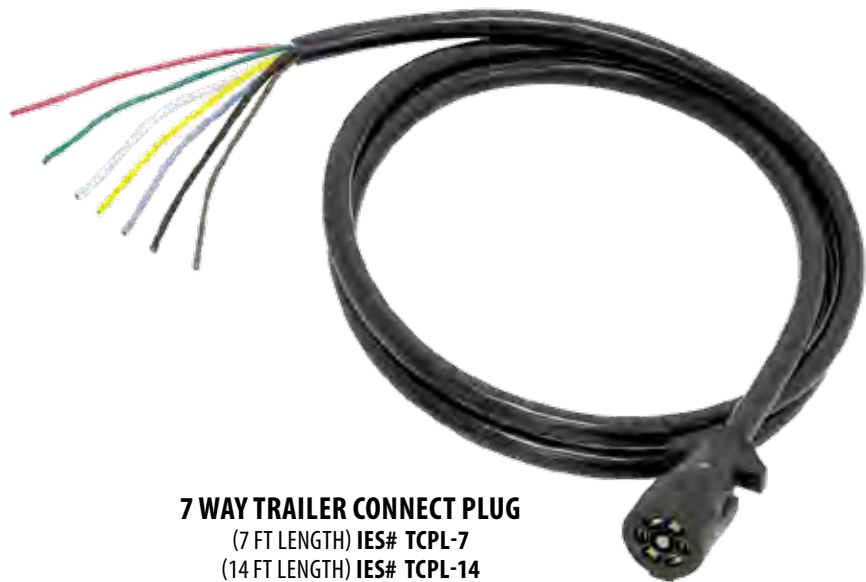
RV CONNECTORS



SOCKET# TCSR-7-P



PLUG# TCPRV-7-P

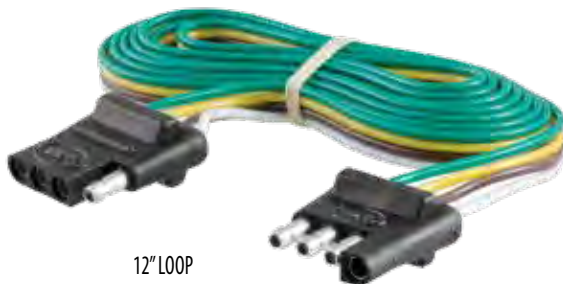


7 WAY TRAILER CONNECT PLUG

(7 FT LENGTH) IES# TCPL-7

(14 FT LENGTH) IES# TCPL-14

(21 FT LENGTH) IES# TCPL-21



12" LOOP



MALE

FEMALE

MOLDED CONNECTORS

CONTACTS	MALE 8" LEAD	FEMALE 8" LEAD	FEMALE 48" LEAD	LOOP 12"	WIRE COLORS
1	IE-37119	IE-37129	IE-37109	IE-37009	BLUE
2	IE-37102	IE-37130	IE-37110	IE-37000	BRN/RED
3	IE-37121	IE-37131	IE-37111	IE-37001	GRN/YLW/BRN
4	IE-37122	IE-37132	IE-37112	IE-37002	GRN/YLW/BRN/WHT
4(SQUARE)	IE-37153	IE-37163	---	IE-37143	GRN/YLW/BRN/WHT
6(SQUARE)	IE-37155	IE-37165	IE-37175	IE-37145	YLW/BRN/WHT/BLU /GRN/BLK



WELD MOUNT

ADHESIVELY BONDED FASTENING SYSTEMS



Visit Weld
Mount Page

WELD MOUNT

1. MOUNT 2-PART CARTRIDGE INTO DISPENSER AND MOUNT MIXING TIP.	2. SQUEEZE HANDLE TO DISPENSE ADHESIVE TO BOTTOM OF PART.	3. FIRMLY PUSH PART OUT SUBSTRAIGHT.	4. READY FOR USE IN 15-45 MINS! PERMANENT!
--	---	--------------------------------------	--

STOP WELDING, DRILLING AND TAPPING

**BEST
SELLER!**



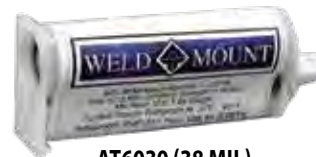
#AT-8040

NO SLIDE MULTI-BONDER ADHESIVE (CARTRIDGE)

- BEST RATED FOR (MARINE) FIBERGLASS, AND ALL METAL SURFACES.
- 1.1 ADHESIVE CURES IN 12 MINUTES
- USE WITH AT-300 DISPENSING GUN AND AT-850 MIXING TIPS



AT-2010 (50 MIL)
ACRYLIC ADHESIVE FOR FIBERGLASS
SUBSTRAIGHTS (CURE/15 MIN)



AT-6030 (38 MIL)
ACRYLIC ADHESIVE FOR METAL
BONDING (CURE/10 MIN)



#AT-300
DISPENSING GUN
COMES WITH 1.1 DUAL
PLUNGER #AT-14



#AT-850
(MIXING TIPS) 10-PACK



#AT-3W (WHITE)
#AT-3B (BLACK)

- 44" WIDTH
- USE FOR .20 WIDTH Tie
- 50 LBS
- ELIMINATE DRILLING, BLOCKING, STOPPING AND WELDING



#AT-5W (WHITE)
#AT-5B (BLACK)

- USE WITH .35 WIDTH Tie
- 150 LBS
- APPROVED FOR SUBMERGED
- APPLICATIONS



#AT-7

- ALUMINUM BASE W/WIRE
- Tie MOUNT
- USE WITH .35 WIDE Tie
- 150 LBS
- Tie MOUNT SWIVELS



WELD MOUNT STARTER KIT
#WMSK-67

CONTAINS:

- (1) AT-8040 ADHESIVE
- (5) MIXING TIPS
- (1) DISPENSING GUN W/PLUNGER
- (25) AT3W SMALL WHITE BASES
- (25) AT5W-LARGE WHITE BASES
- (5) 3.4" 10-24 STAINLESS STUDS
- (5) 1-1/4" 10-24 STAINLESS STUDS

www.IndustryElectric.net • 866.290.1410





WELD MOUNT

ADHESIVELY BONDED FASTENING SYSTEMS



ALUMINUM TIE MOUNTS

IES# AT-9	250 LBS
IES# AT-8	50 LBS



HOSE & CABLE CLAMPS

SINGLE	HOSE OD	STUD REQ	CLAMP DIMENSIONS
SHC-250	1/4"	ST125-1420-12SS	0.87"X0.47"X0.41"
SHC-375	3/8"	ST125-1420-16SS	1.06"X0.63"X0.56"
SHC-500	1/2"	ST125-1420-20SS	1.39"X0.79"X0.89"
SHC-625	5/8"	ST125-1420-20SS	1.39"X0.79"X0.89"
SHC-750	3/4"	ST125-1420-28SS	1.65"X0.79"X1.18"
SHC-1000	1"	ST125-1420-28SS	1.65"X0.79"X1.18"

DOUBLE	HOSE OD	STUD REQ	CLAMP DIMENSIONS
DHC-250	1/4"	ST125-1420-12SS	1.22"X0.047"X0.41"
DHC-375	3/8"	ST125-1420-16SS	1.54"X0.63"X0.57"
DHC-500	1/2"	ST125-1420-20SS	2.08"X0.79"X0.89"
DHC-625	5/8"	ST125-1420-20SS	1.39"X0.79"X0.89"
DHC-750	3/4"	ST125-1420-28SS	1.65"X0.79"X1.18"
DHC-1000	1"	ST125-1420-28SS	1.65"X0.79"X1.18"



FOOTMAN'S STRAP MOUNT

- NYLON STRAP MOUNTS
- 1.3" WIDTH Tie
- 3.25" L x 1" W
- 300 LBS

IES# AT-113	WHITE
IES# AT-113Q	BLACK



304 STAINLESS STUDS

1/4-20 THREAD
500 LBS TENSILE • 650 LBS SHEET

IES#	HEIGHT
ST125-1420-8SS	.50"
ST125-1420-12SS	1"
ST125-1420-16SS	1"
ST125-1420-20SS	1.25"
ST125-1420-24SS	1.50"
ST125-1420-28SS	1.75"
ST125-1420-32SS	2.00"
ST125-1420-40SS	2.50"



304 STAINLESS STUDS

#10-24 THREAD

IES#	HEIGHT
ST125-1024-8SS	.50"
ST125-1024-12SS	.75"
ST125-1024-16SS	1.5"
ST125-1024-20SS	1.25"
ST125-1024-24SS	1.50"
ST125-1024-28SS	1.75"
ST125-1024-32SS	2.00"
ST125-1024-36SS	2.25"
ST125-1024-90SS	2.50"



WELD MOUNT EXECUTIVE KIT W/ AT-8040 ADHESIVE 1001003

IES # 101003

- (1) AT-8040 - No Slide Multi Bonder Acrylic Adhesive
- (1) AT-300 - Dispensing Gun
- (10) AT-850 - 3.5" Mixing Tips For AT-8040 Adhesive
- (100) AT-5 - Large White Cable Tie Mount
- (50) AT-3 - Small White Cable Tie Mount
- (4) AT-113 - Large Footman's Strap
- (10) PS62-832-16SS - 1.00" Long Panel Stud
- (4) ST125-1420-16SS - 1.00" Long Stud w/1/4 x 20 Threads 1.25" Base
- (4) ST125-1420-24SS - 1.50" Long Stud w/1/4 x 20 Threads 1.25" Base
- (4) ST125-1024-12SS - .75" Long Stud w/#10 x 24 Threads 1.25" Base
- (4) ST125-1024-24SS - 1.50" Long Stud w/#10 x 24 Threads 1.25" Base
- (1) Plano Storage Box 14" x 9" x 2.75"
- Step By Step Instructions



304 STAINLESS STUDS

#8-32 Thread

IES#	HEIGHT
PS62-832-8SS	.50"
PS62-832-12SS	.75"
PS62-832-16SS	1.0"
PS62-832-20SS	1.25"
PS62-832-24SS	1.5"



304 STAINLESS HEAVY LOAD STUDS

BASE 2.0" • 1,200 TENSILE • 1,500 SHEET

IES#	HEIGHT
HS200-51618-24SS	.50"
HS200-3816-12SS	.75"
HS200-3816-16SS	1.0"
HS200-3816-246SS	1.5"
HS-200-3816-32SS	2.0"





**BEST
SELLING
TOOLS!**
Scan QR to visit
tools page.



CT-100 (MULTI-TOOL)
ECONOMY/STANDARD
22-8 GA INSULATED & NON-
INSULATED, SPRING LOADED,
ALSO CUTS SMALL SCREWS
(LENGTH 8")



CT-105 ECONOMY
W/ FRONT CUTTER 22-10
INSULATED & NON-INSULATED
(LENGTH 9")



RT22-10
RATCHET FULL CYCLE 22-10
GA, FOR NYLON & HEAT SHRINK
INSULATED (LENGTH 9")



RT14-8
RATCHET FULL-CYCLE
FOR NYLON & HEAT SHRINK
INSULATED 14-8 GA (LENGTH 9")



RT22-8
FULL-CYCLE RATCHET CRIMPER
22-8 (4 DIE) FOR NYLON & HEAT
SHRINK INSULATED (LENGTH 9")



RTVN-2210
RATCHET FULL CYCLE FOR DUAL
BARREL (VN) NYLON INSULATED
TERMINALS 22-10 GA.



T&B CT-429
HEAVY DUTY MANUAL CRIMP
TOOL 22-10 GA INSULATED &
NON-INSULATED



SW2610
UNIVERSAL WIRE STRIPPER
24-10 GA



FSW24-10
UNIVERSAL FRONT WIRE
STRIPPER - 24-10 GA



11053
KLEIN KURVE WIRE STRIPPER/
CUTTER (5.4 OZ 7.5" LENGTH)



UP-841
HAND HELD CUTTER 8-2/10
(LENGTH 7.5")



CC-16
16" CUTS 8-350 MCM
(ALSO AVAILABLE IN BENCH
MOUNT #CC-16BM)



CC-21
LENGTH 20 3/4" CUTS
8-500MCM LIGHT FIBERGLASS
HANDLES



(replacement blades #21051B)

21051
KLEIN STRANDED CABLE
STRIPPER 2/0-250 MCM,
17.6 OZ/4.65 LENGTH



WS-TOR
STRIPS 8-4/0 BATTERY WELDING
CABLE CLEAN & SAFE



CT-080
19" BATTERY TERMINAL
CRIMPER 6-1/0



CT-090
26" HEAVY LUG CRIMPER 6-4/0
(ALSO AVAILABLE IN BENCH
MOUNT #CT-090BM)



THT-SC-CC
ILSCO TASKMASTER INDUSTRIAL
ELECTRICIAN SCISSORS FOR WIRE-CUTTING
& CRIMPING (w/safety holster)



IENTK-1500 shown



HEAT SHRINK TERMINAL KITS, SEE PAGE 14



BINS & INVENTORY SOLUTIONS, SEE PAGE 60

NYLON INSULATED TERMINAL KIT

KIT# IENK-1500 18X12X3 metal box (1500 PC)	KIT# IENK-900 13X9X2 metal box (900 PCS)	IE	TERMINAL TYPE
22-18 GAUGE			
75	45	R2218-6VN	RING #6
75	45	R2218-8VN	RING #8
75	45	R2218-10VN	RING #10
75	45	R2218-14VN	RING 1/4"
75	45	R2218-56VN	RING 3/4"
75	45	B2218N	BUTT
16-14 GAUGE			
75	45	R1614-6VN	RING #6
75	45	R1614-8VN	RING #8
75	45	R1614-10VN	RING #10
75	45	R1614-14VN	RING 1/4"
75	45	R1614-56VN	RING 5/16"
75	45	FL1614-10VN	LOCKSPADE #10
75	45	QDFF14-25N	QKDISC. FEMALE
75	45	QDFM14-25N	QKDISC. MALE
75	45	B1614N	BUTT
12-10 GAUGE			
75	45	R1210-10VN	RING #10
75	45	R1210-14VN	RING 1/4"
75	45	R1210-56VN	RING 5/16"
75	45	R1210-38VN	RING 3/8"
75	45	B1210N	BUTT

FUSE KITS



900 PC ATC/MINI FUSE KIT IES# AM-900

MINI FUSES 45 each	ATC FUSES 45 each
1, 2, 4, 5, 7.5, 10, 15, 20, 25, 30, 40	1, 4, 5, 7.5, 10, 15, 25, 30, 40

13X9X2 metal box, one MINI/ATC fuse puller



300 PC SERVICE FUSE KIT IES# AM-300

ATC FUSES 25 each	MINI FUSES 25 each
5, 10, 15, 20, 25, 30	5, 10, 15, 20, 25, 30

(1) ATC/MINI fuse puller, 11x7x2 weather-tight nylon box

TYPE 316

**#8 FLATHEAD WOOD**

SCREWS - STAINLESS

IES#	LENGTH
4660-1/2	1/2"
4660-3/4	3/4"
4660-1	1"
4660-1.25	1.25"
4660-1.5	1.5"
4660-2	2"

TYPE 316

**#10 FLATHEAD**

WOOD SCREW-STAINLESS

IES#	LENGTH
4661-1/2	1/2"
4661-3/4	3/4"
4661-1	1"
4661-1.25	1.25"
4661-1.5	1.5"
4661-2	2"

TYPE 316

**DECK SCREWS TYPE 17**

WOOD CUT POINT STAINLESS

IES#	HEAD	LENGTH
4774-112	#10	1-1/2"
4774-134	#10	1-3/4"
4774-2	#10	2"
4775-212	#10	2-1/2"

**HEX WASHER HEAD SELF TAP**

410 STAINLESS

IE #	HEAD	LENGTH
HHST6-38	6	3/8"
HHST6-12	6	1/2"
HHST6-3/4	6	3/4"
HHST6-1	6	1
HHST6-1.25	6	1-1/4"
HHST6-1.5	6	1-1/2"
HHST8-38	8	3/8"
HHST8-12	8	1/2"
HHST8-34	8	3/4"
HHST8-1	8	1
HHST8-1.25	8	1.1/4"
HHST8-1.5	8	1.1/2"
HHST8-1.75	8	1-3/4"
HHST10-12	10	1/2"
HHST10-58	10	5/8"
HHST10-34	10	3/4"
HHST10-1	10	1"
HHST10-1.25	10	1.1/4"
HHST10-1.5	10	1.1/2"
HHST10-2	10	2"
HHST10-2.5	10	2-1/2"
HHST12-34	12	3/4"
HHST12-1	12	1
HHST12-1.25	12	1-1/4"
HHST12-1.5	12	1-1/2"
HHST12-1.75	12	1-3/4"
HHST12-2	12	2"
HHST12-2.5	12	2-1/4"
HHST12-3	12	3"
HHST12-4	12	4"
HHST14-34	14	3/4"
HHST14-1	14	1
HHST14-1.25	14	1-1/4"
HHST14-1.5	14	1-1/2"
HHST14-1.75	14	1-3/4"
HHST14-2	14	2"
HHST14-3	14	3"
HHST14-4	14	4"

**SELF TAP
PAN STAINLESS**

IES#	HEAD
8954-1/2	8
8954-3/4	8
8955-1	8
8955-1.25	8
8955-1.50	8
8977-1/2	10
8977-3/4	10
8977-1	10
8977-1.5	10

**STANDARD PAN STAINLESS**

IES#	HEAD	SIZE
8877-1/2	#8	1/2"
8877-3/4	#8	3/4"
8877-1	#8	1"
8877-1.25	#8	1.25"
8877-1.5	#8	1.5"
8879-1/2	#10	1/2"
8879-3/4	#10	3/4"
8879-1	#10	1"
8879-1.25	#10	1.25"
8879-1.5	#10	1.5"

**SPLIT LOCK WASHERS**

IES#	DESC.
SPLW-6	6
SPLW-8	8
SPLW-10	10

**STAR WASHER**

IES#	DESC.
7446-IE	#8
7447-IE	#10

**SERRATED FLANGE
NUTS**

SIZE	IES#
6-32	5NHFS-006
8-32	5NHFS-008
10-24	5NHFS-010
10-32	5NHFS-011
1/4X20	5NHFS-025

**STAINLESS WASHERS**

IES#	DESC.
5113	#8 316 SS FLAT
5116	#10 18-8 SS FLAT
5117	#10 316 SS FLAT

**FINISH WASHER**

IES#	DESC.
FNW-6	#6
FNW-8	#8
FNW-10	#10

ALL HARDWARE SOLD IN 100, 500 AND 1,000 PACKS

ALL HARDWARE SOLD IN 100, 500 AND 1,000 PACKS

**PHILLIPS - PAN
BLACK OXIDE**

IES#	SIZE
8116-IE	#8 X 1/4
8106-IE	#8 X 1/2
8107-IE	#8 X 3/4
8108 - IE	#8 X 1
8109-IE	#8 X 1-1/2
8110-IE	#8 X 2
8128 -IE	#8 X 2-1/4
8111-IE	#8 X 3

**PHILLIPS PAN SELF TAP
BLACK OXIDE**

IES#	SIZE
8118-IE	#8 X 1/2
8119-IE	#8 X 3/4
8120-IE	#8 X 1
8121-IE	#8 X 1 1/2

**PHILLIPS -WAFER
STINGERS
BLACK OXIDE**

IES#	SIZE
PW5812	#8 X 1/2
PW5834	#8 X 3/4
PW5810	#8 X 1

**PHILLIPS WAFER
SELF TAP
BLACK OXIDE**

IES#	SIZE
8220	#8 X 1/2
8240-IE	#8 X 3/4
8221-IE	#8 X 1
8224-IE	#10 X 3/4
8125-IE	#10 X 1

**PHILLIPS TRUSS
BLACK OXIDE**

IES#	SIZE
PTH8-12	8 X 1/2
PTH8-34	8 X 3/4
PTH10-1	10 X 1
PTH10-1.5	10 X 1-1/2

**PHILLIPS OVAL
BLACK OXIDE**

IES#	SIZE
POH-1/2	#8 X 1/2
POH-3/4	#8 X 3/4
POH-1/2	#8 X 1
POH-15	#8 X 1 1/2
POH-2	#8 X 2

**PHILLIPS STINGER
BLACK OXIDE**

IES#	SIZE
8156-IE	#6 X 1
8151-IE	#6 X 1 1/4
8154-IE	#6 X 1 1/2
8152-IE	#6 X 2

**SPEED CLIPS**

IES#	SIZE
5111-IE	FLAT
5112-IE	SHORT
5113-IE	LONG

**HEX - WASHER
BLACK OXIDE**

IES#	SIZE
8245-IE	#8 X 1/2
8142-IE	#8 X 3/4
8143-IE	#8 X 1

**HEX WASHER SELF TAP
BLACK OXIDE**

IES#	SIZE
8245-IE	#8 X 1/2
8246-IE	#8 X 3/4
8247-IE	#8 X 1
8248-IE	#8 X 1 1/2
8254-IE	#10 X 1/2
8255-IE	#10 X 3/4
8256-IE	#10 X 1
8257-IE	#10 X 1 1/2

**WASHERS & TRIM RINGS**

IES#	DESCRIPTION
934	MINI WASHER 3/16 X 7/16
986	1/4"ID X 1"OD FENDER WASHER
997	1/4"ID X 5/8"OD FLAT WASHER
999	3/8"ID X 7/8" OD FLAT WASHER
1021	#10 INT/EXT LOCK WASHER
1024	#10 INT/EXT LOCK WASHER-ZINC
1026	#8 INT/EXT LOCK WASHER
1033	#8 TRIM RING



DURHAM MFG
Est. 1922
MADE IN USA



METAL HOLDING DRAWERS

IES#	DESCRIPTION	IES#	DESCRIPTION
DLH-4	Holds four 18x12x3 metal boxes	DLH-2	Holds two 18x12x3 metal boxes
		DSH-2	Holds two 13x9x2 metal boxes



DL-ADJ

18" W x 12" D x 3" H -
24 compartment large-scoop metal
box and adjustable dividers.
Comes with 10# AD-LD divider/inserts.



BL-R

Base for IES#'s DLH-4 and DLH-2,
Raises 15 inches.



SINGLE ROD TOTE W/ HANDLE

(26-1/8 x 6 x 10-3/8)
IES# WR-TOTE



DL-16

18" W x 12" D x 3" H
16 Compartment



DL-6H CABLE TIE (METAL BIN)

18" W x 12" D x 3" H
6 compartment.



WIRE RACKS

WSR-4 (4 ROD)
(26-1/8 x 6 x 37-1/8)

WSR-2 (2 ROD)
(26-1/8 x 6 x 17-7/8)

DS-21 (SERVICE BOX)

13-3/8" W x 9" D x 2" H
21 compartment with or without
tool compartment.
Use IES# DS-20 for without tool
compartment.



DL-21 (SERVICE BOX)

18"x12"x3" - 21 compartment.
21 compartment with or without
tool compartment.
Use IES# DL-20 for without tool
compartment.



- **Exceptional Customer Service**
- **Quality American Made Products**
- **Immediate Shipping**
- **Nationwide Sales Force**
- **Competitive Pricing**
- **OEM, MRO, VMI, & Retail Solutions**



BATTERY TERMINALS



CIRCUIT BREAKERS



HARDWARE



SWITCHES



RELAYS



DEUTSCH PRODUCTS



WEATHER PACK



CABLE TIES



TOOLS



WELD MOUNT



ELECTRICAL TAPE



WIRE + CABLE



COPPER/ COMPRESSION LUGS



HEAT SHRINK TUBING



FUSES



Industry Electric Systems
Tel 866.290.1410 | Fax 401.406.2711
Newport RI | Enfield CT | Ft Myers FL



IndustryElectric.net

