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History since 1914 ...

At the turn of the twentieth century, a young Scotsman named Bill P. Marr immigrated to Ontario, Canada. After settling in the Toronto area, Marr was soon employed by the T. Eaton Company as a contractor for Ontario Hydro, where he worked as an electrician converting gas lit homes to electrical incandescent lighting.

As part of this conversion, the accepted practice back then was a process called "solder and tape". Typically, a mechanic would first run the wires required, then an electrician would polish the exposed conductors and twist them together. Next, the ends of the wires would be firmly joined by dipping them in a pot of molten solder, and after they cooled, the wires would then be wrapped with an insulating tape.

Over time, this process proved to be both time consuming and dangerous, as Bill Marr discovered first-hand when he inadvertently spilled a scorching solder pot while working in a customer's home. Convinced that there had to be a safer and more efficient way of joining

two electrical conductors, Marr worked tirelessly in his basement shop until he finally invented the first pressure type wire connector (a set screw version which was the forerunner to the modern day wire connector).

Since that day in 1914, the Marr® company has become a leading manufacturer of twist-on wire connectors throughout North America. The Marrette® brand has so revolutionized the way branch circuits were connected that the term "marrette" has become synonymous with "wire connector" in the electrician's vocabulary.

And since being acquired by T&B in 1997, this highly respected Marrette® brand name has become an integral part of the vast Thomas & Betts product offering to the construction market.



Small Formats

Model	Format	Description
C	Card	Blistercard of 3, 6, 15 or 20 (Retail market only)
B	Window Box	Small box of 15, 25 or 50 (Retail market only)
P	Propak	Box of 50 or 100

NOTE: Models C and B need to be ordered by blistercard or small box unit. Order 1 each for one (1) box/card.



Bulk Pack Formats

Model	Format	Description
Q	Flip-Pak	Container of 200 or 250
MFP	Mini Flip-Pak	Container of 200 to 500 (Retail market only)
D	Flip-Pak	Container of 500
M	Flip-Pak	Container of 1,000
BP	Box	Bulk box of 1,000
BK	Flip-Pak	Bulk keg of 5,000 to 10,000 (depending on model)
BAR	Barrel	Barrel of 20,000 to 45,000 (depending on model) - included: 3 unmarked Flip-Paks (500 marrettes format) with lids



Bag Formats

Model	Format	Description
KP	Keg Pak	Resealable bag of 250 or 500



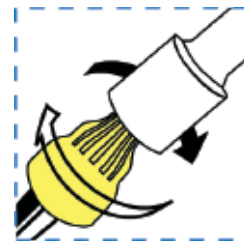
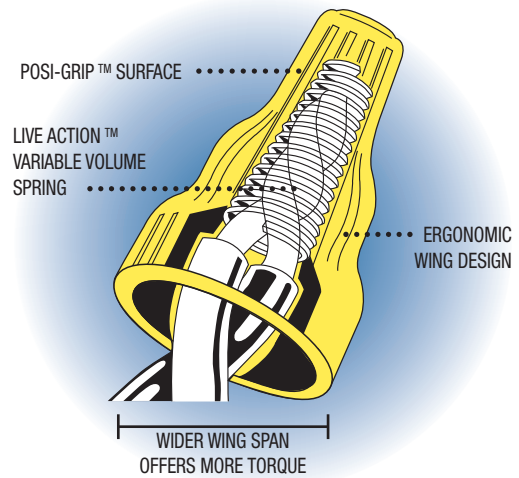
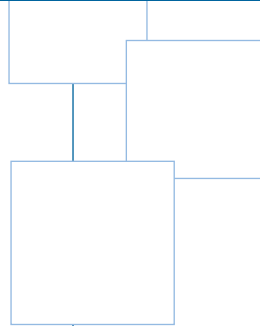
The Marrette® 833 is an outstanding wire connector with an ergonomic wing design which can take a wide range of wire combinations ranging from #22 to #8 AWG.

External Cap

- Ergonomic wing design gives you a comfortable grip and more torque than the competition. The ergonomic shape reduces finger fatigue from repetitive installations.
- The ergonomic wing shape allows excellent torque grip for your fingers as well as the option to use a standard 1/2" or 13mm hex driver to help twist the Marrette.
- Made of tough durable polypropylene and 105°C rated to withstand high installation pressures.
- Deep wide throat ensures full insulation coverage.
- Highly visible yellow colour: indicative of a secure connection for residential applications.

Inner Spring

- Exclusive Live Action™ variable volume spring expands to accommodate even more wires with less twisting effort compared to other wide range wire connectors.
- Range: #22 to #10, **with no pre-twisting.**
- The square wire spring construction and funnel design gives a positive pressure conductor grip for solid or stranded wires
- Approved for circuits up to 600V and lighting fixtures and signs up to 1000V.
- For copper conductor only.
- Convenient packaging - sized right and job-site ready!



Can also be used with 1/2" or 13mm nut driver.

Ordering Information

Model	Colour	AWG Wire Range							
		22	20	18	16	14	12	10	8
833	yellow	Min.: 3 #22 Max.: 3 #10							
Drivers									
TOOL-WING	Driver for winged Marrettes (included in all packs of 1000 units +).								

Note: Refer to pages 32 and 33 for related Wire Combination Reference Guide.

Packaging Options

	Catalogue Number	Packaging Format	Quantity per Package	Std. Pkg. (Min./Mult.)
833	833C	Card (Retail market only*)	15	300 Units
	833P	Propak	100	1,000 Units
	833MFP	Mini Flip-Pak (Retail market only*)	300	1,200 Units
	833KP	Resealable Bag	500	5,000 Units
	833D	Flip-Pak	500	500 Units
	833M	Flip-Pak	1,000	1,000 Units
	833BK	Flip-Pak	10,000	10,000 Units
	833BAR	Barrel	25,000	25,000 Units

* Retail: Order 1 each for one (1) Card/Box/Flip-Pak.

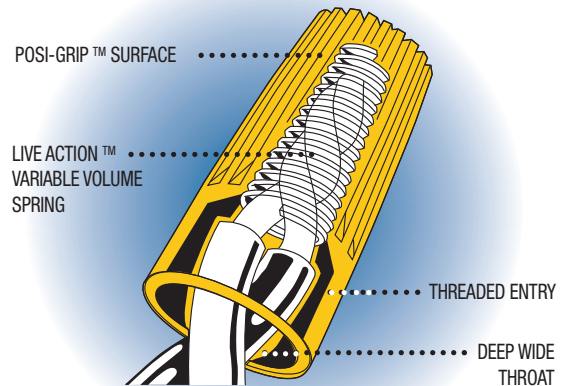
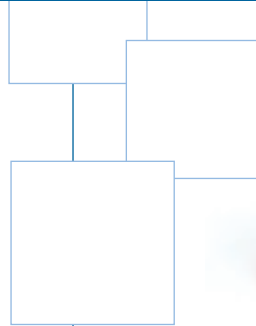
The Marrette® XTP® is a high quality, twist-on wire connector with a unique spring and cap grip design that sets it apart from the competition.

External Cap

- Made of tough, durable polypropylene and 105°C rated to withstand high installation pressures.
- Posi-Grip™ surface combines a matte finish with closely-spaced, deep grooves for superior twisting power, even when hands are greasy or damp.
- Deep, wide throat ensures full insulation coverage.
- Threaded entry helps guide large wire bundles into the spring chamber.
- Colour-coded for quick and easy size selection.

Inner Spring

- Exclusive Live Action™ variable volume spring expands to accommodate more wires with less twisting effort, compared to other connectors with a “fixed spring” design.
- Models nos. 329 and 330 have a round spring, while 331, 333 and 335 have a square wire spring construction that gives a positive conductor bite to solid or stranded wires.
- Unique copper-coated spring helps resist corrosion.
- Models nos. 329 and 330 are approved for circuits up to 300V only. — Models nos. 331, 333, 335 and 822 are approved for circuits up to 600V, and lighting fixtures and signs up to 1000V.
- For copper conductor only.
- Convenient packaging - sized right and job-site ready!



Ordering Information

Model	Colour	AWG Wire Range								
		22	20	18	16	14	12	10	8	
329	grey	Min.: 1 #22 + 1 #20		Max.: 2 #22 + 3 #20						
330	blue	Min.: 1 #22 + 1 #20		Max.: 3 #16						
331	orange			Min.: 2 #18		Max.: 3 #14				
333	yellow			Min.: 2 #18 + 1 #14		Max.: 2 #14 + 1 #10				
335	red	Min.: 1 #22 + 2 #18		Max.: 1 #14 + 4 #12						
822*	blue	Min.: 2 #22 + 1 #20		Max.: 2 #8						
Drivers										
TOOL 331	Plastic driver to install Model 331 (included in all packs of 1000 units +)									
TOOL 333	Plastic driver to install Model 333 and 822 (included in all packs of 1000 units +)									
TOOL 335	Plastic driver to install Model 335 (included in all packs of 1000 units +)									

Note: Refer to pages 25 to 28 and 30 to 32 for related Wire Combination Reference Guides.

*UL not applicable.

Packaging Options

	Catalogue Number	Packaging Format	Quantity per Package	Std. Pkg. (Min./Mult.)
329	329P	Propak	100	1,000 Units
	329BP	Bulk Box	1000	1,000 Units
	329BK	Flip-Pak	10,000	10,000 Units
330	330P	Propak	100	1,000 Units
	330BP	Bulk Box	1000	1,000 Units
	330BK	Flip-Pak	10,000	10,000 Units
331	331C	Card (Retail market only*)	20/Card	20 Cards
	331B	Window Box (Retail market only*)	50/Box	10 Boxes
	331P	Propak	100	1,000 Units
	331D	Flip-Pak	500	2,000 Units
	331KP	Resealable Bag	500	5,000 Units
	331M	Flip-Pak	1,000	1,000 Units
	331BK	Flip-Pak	10,000	10,000 Units
	331BAR	Barrel	45,000	45,000 Units
333	333C	Card (Retail market only*)	15/Card	20 Cards
	333B	Window Box (Retail market only*)	50/Box	10 Boxes
	333P	Propak	100	1,000 Units
	333KP	Resealable Bag	500	5,000 Units
	333D	Flip-Pak	500	500 Units
	333M	Flip-Pak	1,000	1,000 Units
	333BK	Flip-Pak	10,000	10,000 Units
	333BAR	Barrel	25,000	25,000 Units
335	335C	Card (Retail market only*)	6/Card	20 Cards
	335B	Window Box (Retail market only*)	25/Box	10 Boxes
	335P	Propak	100	1,000 Units
	335Q	Flip-Pak	200	800 Units
	335D	Flip-Pak	500	500 Units
	335BK	Flip-Pak	7,000	7,000 Units
822	822Q	Flip-Pak	200	800 Units
	822D	Flip-Pak	500	500 Units
	822BK	Flip-Pak	8,000	8,000 Units
	822BAR	Barrel	20,000	20,000 Units

* Retail: Order 1 each for one (1) Card/Box/Flip-Pak.

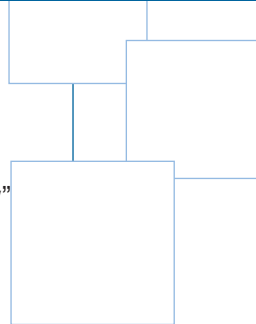
The Marrette® Type II® Winged wire connector is design engineered for additional twisting power to meet the high quality expectations of the electrical professional.

External Cap

- Made of tough, durable polypropylene and 105°C rated to withstand high installation pressures.
- Long-Wing™ design for smooth hand application. The long, off-set wings with raised edges offer a full-length, “finger-friendly” gripping surface. Torque can be selectively applied exactly where you want it:
 - Top - for tight finger locations
 - Bottom - for large wire bundles
- Ribbed body surface gives additional grip, even when hands are greasy or damp.
- Deep, wide throat ensures full insulation coverage.
- Threaded entry helps guide large wire bundles into the spring chamber.
- Colour-coded for quick and easy size selection.

Inner Spring

- Live Action™ variable volume spring expands to accommodate a wide range of wire combinations.
- Square wire construction gives a positive conductor bite to solid or stranded wires.
- Unique copper-coated spring helps resist corrosion.
- Approved for circuits up to 600V, and lighting fixtures and signs up to 1000V.
- For copper conductor only.
- Convenient packaging-sized right and job-site ready!

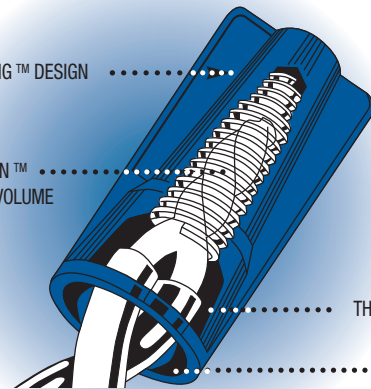


LONG-WING™ DESIGN

LIVE ACTION™
VARIABLE VOLUME
SPRING

..... THREADED ENTRY

..... DEEP WIDE
THROAT



Ordering Information

Model	Colour	AWG Wire Range							
		20	18	16	14	12	10	8	6
739	blue				Min.: 3 #12		Max.: 2 #6		
Drivers									
TOOL-WING	Plastic driver to install model 739 (included in 739KP package)								

Note: Refer to page 30 for related Wire Combination Reference Guide.

Packaging Options

	Catalogue Number	Packaging Format	Quantity per Package	Std. Pkg. (Min./Mult.)
739	739B	Window Box (Retail market only*)	15/Box	10 Boxes
	739C	Card (Retail market only*)	3/Card	20 Cards
	739P	Propak	50	500 Units
	739KP	Releasable Bag	100	2,500 Units
	739Q	Flip-Pak	250	250 Units

* Retail: Order 1 each for one (1) Card/Box/Flip-Pak.

The Marrette® Black™ High Temperature rating makes it the best solution for high wattage lighting fixtures and signs.

External Cap

- Made of rugged, thermoplastic polymer material 150°C rated.
- Large, finely ribbed, “barrel-shaped” cap - makes it easier to grip even when hands are greasy or damp.
- Deep, wide throat ensures full insulation coverage.
- Threaded entry helps guide large wire bundles right into the spring.

Inner Spring

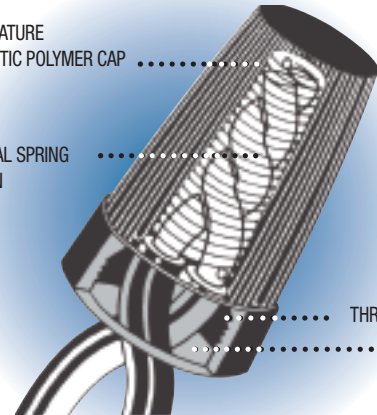
- Internal conical spring design multiplies the “twist-on” torque applied by the leverage and wedge action, to firmly crush wires into a solid joint.
- Unique copper-coated spring helps resist corrosion.
- Model no. 30 Black™ is approved for circuit and fixture type connections up to 300V only.
- Model nos. 31, 33 and 35 Black™ are approved for circuits up to 600V, and lighting fixtures and signs up to 1000V.
- For copper conductor only.
- Convenient packaging - sized right and job-site ready!



HIGH TEMPERATURE
THERMOPLASTIC POLYMER CAP

CONICAL SPRING
DESIGN

..... THREADED ENTRY
..... DEEP WIDE
THROAT



Ordering Information

Model	Colour	AWG Wire Range								
		22	20	18	16	14	12	10	8	
30	black	Min.: 1 #22 + 1 #20		Max.: 3 #16						
31	black			Min.: 2 #18		Max.: 4 #16				
33	black			Min.: 1 #18 + 1 #14		Max.: 4 #14				
35	black			Min.: 2 #14		Max.: 4 #10				

Note: Refer to pages 23 to 25 for related Wire Combination Reference Guides.

Packaging Options

	Catalogue Number	Packaging Format	Quantity per Package	Std. Pkg. (Min./Mult.)
30	30P	Propak	100	1,000 Units
	30BP	Bulk Box	1,000	1,000 Units
	30BK	Flip-Pak	15,000	15,000 Units
31	31P	Propak	100	1,000 Units
	31D	Flip-Pak	500	500 Units
	31M	Flip-Pak	1,000	1,000 Units
	31BK	Flip-Pak	10,000	10,000 Units
33	33P	Propak	100	1,000 Units
	33D	Flip-Pak	500	500 Units
	33BP	Bulk Box	1,000	1,000 Units
	33BK	Flip-Pak	5,000	5,000 Units
35	35P	Propak	100	1,000 Units
	35Q	Flip-Pak	200	800 Units
	35D	Flip-Pak	500	500 Units
	35BK	Flip-Pak	5,000	5,000 Units

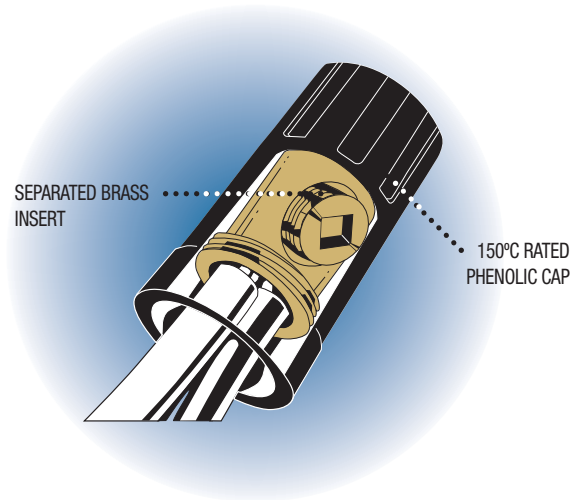
The Marrette® Set-Screw is a two-piece, pressure type connector, featuring a solid brass insert with a screw-on insulating cap. It's the perfect choice when changing a motor, adding a circuit, conducting instrument testing or simply lashing-up temporary wiring.

External Cap

- Made of rugged, thermoplastic polymer material 150°C rated.
- Insulator cap locks securely in place to safeguard against accidental loosening in high vibration applications.

Inner Sleeve + Screw

- Choice of Slotted or Robertson screw-driver installation. When tightened into the insert, provides a solid pressure type connection on all approved wire combinations.
- No need to "re-strip" wires when rewiring. Simply loosen set screw to remove non-twisted wires.
- Brass sleeve + set-screw help resist corrosion.
- Approved for circuits up to 600V, and lighting fixtures and signs up to 1000V.
- For copper conductor only.
- Convenient packaging - sized right and job-site ready!



Ordering Information

Cat. No.	Description	AWG Wire Range					
		18	16	14	12	10	8
1SHD, 1SHP	Cap and insert combination screw & brass barrel	Min.: 2 #18		Max.: 1 #18 + 3 #14			
1SHi	Insert screw & brass barrel only	Min.: 2 #18		Max.: 1 #18 + 3 #14			
2SHD, 2SHP	Cap and insert combination screw & brass barrel			Min.: 2 #14		Max.: 1 #12 + 2 #10	
2SHi	Insert screw & brass barrel only			Min.: 2 #14		Max.: 1 #12 + 2 #10	

Note: Refer to pages 22 and 23 for related Wire Combination Reference Guides.

Packaging Options

	Catalogue Number	Packaging Format	Quantity per Package	Std. Pkg.
1SH	1SHP	Propak	100	1,000 Units
	1SHD	Flip-Pak	500	500 Units
	1SHi	Carton	100	1,000 Units
2SH	2SHP	Propak	50	500 Units
	2SHD	Flip-Pak	500	500 Units
	2SHi	Carton	50	1,000 Units

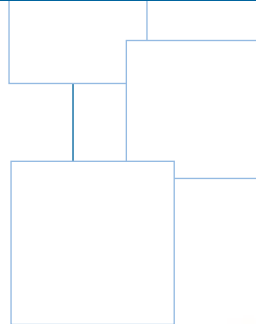
The Marrette® ACS™ Aluminum Wiring wire connector is a fixed spring, twist-on connector made of special spring wire materials and coatings, to meet the rigorous standards for aluminum wire connections.

External Cap

- Made of sturdy, dark brown, phenolic material 150°C rated.
- Large, finely ribbed, “barrel-shaped” cap - makes it easier to grip even when hands are greasy or damp.
- Deep, wide throat ensures full insulation coverage.
- Threaded entry helps guide large wire bundles right into the spring.

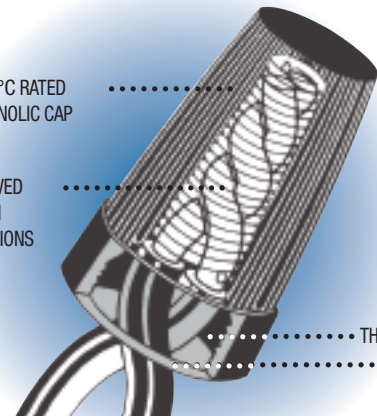
Inner Spring

- Made of a special bronze alloy and then plated with a thick coating of tin to satisfy the rigorous standards established for aluminum wire connections.
- Round spring design ensures that aluminum conductors and highly stranded copper wires are not scored or severed when joined.
- Approved for circuits up to 600V, and lighting fixtures and signs up to 1000V.
- Approved for aluminum - to - aluminum, copper - to - copper, aluminum - to - copper (or highly stranded copper) connections.
- Convenient packaging - sized right and job-site ready!
- Not UL listed.



150°C RATED
PHENOLIC CAP

SPRING APPROVED
FOR ALUMINUM
WIRE CONNECTIONS



THREADED ENTRY
DEEP WIDE
THROAT



Ordering Information

Model	Colour	AWG Wire Range							
		22	20	18	16	14	12	10	8
63	brown			Min.: 1 #18 + 1 #14				Max.: 1 #18 + 4 #14	
65	brown			Min.: 2 #14		Max.: 3 #16 + 3 #12			

Note: Refer to pages 28 to 30 for related Wire Combination Reference Guides.

Packaging Options

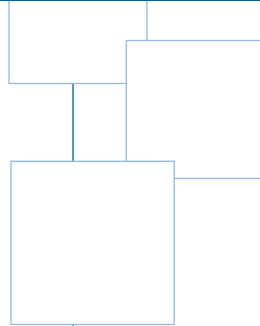
	Catalogue Number	Packaging Format	Quantity per Package	Std. Pkg. (Min./Mult.)
63	63C	Card (Retail market only*)	6/Card	20 Cards
	63B	Window Box (Retail market only*)	25/Box	10 Boxes
	63P	Propak	100	1,000 Units
	63D	Flip-Pak	500	500 Units
65	65C-CDN	Card (Retail market only*)	6/Card	20 Cards
	65P	Propak	100	1,000 Units
	65D	Flip-Pak	500	500 Units

* Retail: Order 1 each for one (1) Card/Box/Flip-Pak.

The porcelain extreme high temperature wire connector is the solution for high temperature furnace/oven or other intense heat applications up to 645°C (1200°F).

Cap

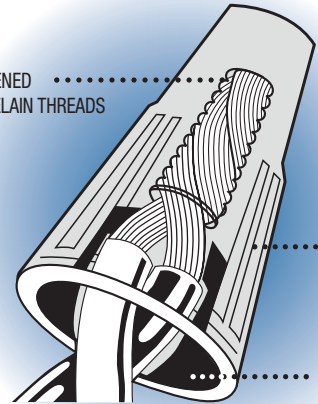
- Made of porcelain - rated up to 645°C (1200°F)
- Closely spaced grooves for excellent twisting power
- Deep wide throat ensures full insulation coverage
- Funneled entry helps wires into threaded compression compartment
- Springless - Inner surface of cap threaded to secure conductors with the same efficiency as a spring.
- Approved for circuits up to 300V only.
- For stranded copper conductor only.



HARDENED
PORCELAIN THREADS

EXCELLENT GRIP

DEEP WIDE THROAT



Ordering Information

Model	Colour	AWG Wire Range							
		22	20	18	16	14	12	10	8
10-401, 10-411, 10-421	white			Min.: 2 #18	Max.: 1 #18 + 2 #16				
10-405, 10-415, 10-425	white			Min.: 2 #18	Max.: 2 #18 + 2 #16				
10-407, 10-417, 10-427	white			Min.: 2 #18	Max.: 4 #16				

Note: Refer to page 22 for related Wire Combination Reference Guides.

Packaging Options

Catalogue Number	Packaging Format	Quantity per Package	Std. Pkg. (Min./Mult.)
10-401	Box	100	100 Units
10-411	Box	1,000	1,000 Units
10-421	Box	5,000	5,000 Units
10-405	Box	100	100 Units
10-415	Box	1,000	1,000 Units
10-425	Box	5,000	5,000 Units
10-407	Box	100	100 Units
10-417	Box	1,000	1,000 Units
10-427	Box	5,000	5,000 Units

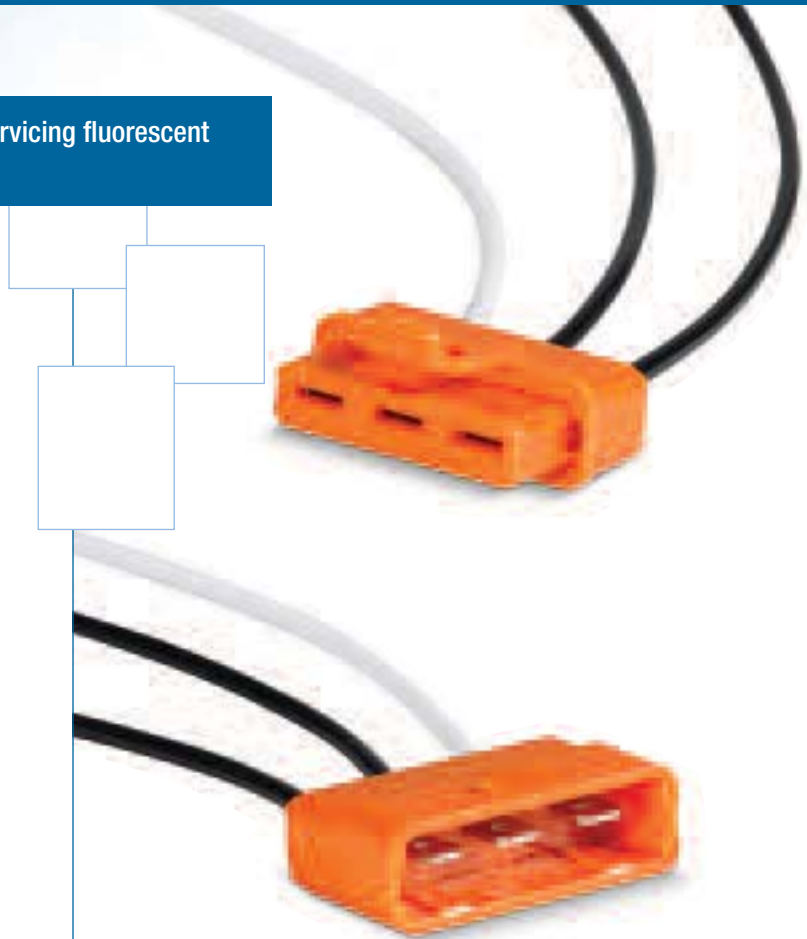
The Marrette[®] Luminaire Disconnect protects electricians servicing fluorescent lights over 150V from electrical shock!

Suited for

- Fluorescent lighting fixture and ballast (OEMs)
- Electricians servicing fluorescent light fixtures
- Maintenance personnel requiring an electrical disconnect

Specifications

Housing:	Polycarbonate
Contacts:	Tin-plated brass
Integral leads:	Insulated 18 AWG solid copper
Max. temp. rating:	105°C
Flammability:	UL94-V2 (V0 available on request)
Electrical rating:	4A, 600V
Standards:	CSA Certified, UL listed, NEC 410.73(G) 2005 edition compliant



Ordering Information

Model	Description
LD2C-D	2-pole luminaire disconnect (marrettes not included)
LD3C-D	3-pole luminaire disconnect (marrettes not included)
LD2-C	2-pole luminaire disconnect (2 x 4 marrettes 333 /inner bag)
LD3-C	3-pole luminaire disconnect (6 of each marrettes (331 + 333) /inner bag)

Packaging Options

	Catalogue Number	Packaging Format	Std. Pkg. (Min./Mult.)
BULK	LD2C-D LD3C-D	Box Box	Sold without marrettes. Inner: 50 per inner bag Outer: 250 per outer box Master: 500 in master box Sold in multiple of 500
	LD2-C LD3-C	Bag Bag	Sold with marrettes. Inner: 2 per inner bag Outer: 20 per outer bag Master: 200 in master box Sold in multiple of 20

Complete List of Wire Combinations

Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG	Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG
1SH	1	18		1	14				10407	1	18		3	16			
1SH	1	18		2	14				10407	1	18		1	14			
1SH	1	18		3	14				10407	1	18		2	14			
1SH	2	18							10407	1	18		1	12			
1SH	2	18		1	14				10407	2	18						
1SH	2	18		2	14				10407	2	18		1	16			
1SH	3	18							10407	2	18		1	14			
1SH	3	18		1	14				10407	3	18						
1SH	4	18							10407	3	18		1	16			
1SH	5	18							10407	3	18		1	14			
1SH	6	18							10407	4	18						
1SH	7	18							10407	5	18						
1SH	8	18							10407	1	16		1	14			
1SH	1	16		1	14				10407	1	16		1	12			
1SH	2	16							10407	2	16		1	14			
1SH	2	16		1	14				10407	2	16						
1SH	3	16							10407	3	16						
1SH	4	16							10407	4	16						
1SH	5	16							10407	2	14						
1SH	2	14															
1SH	3	14							1410	1	14		1	12			
1SH	2	12							1410	1	14		2	12			
									1410	1	14		1	12		1	10
10401	1	18		2	16				1410	1	14		2	12		1	10
10401	1	18		1	14				1410	1	14		3	12		1	10
10401	2	18							1410	1	14		1	12		2	10
10401	2	18		1	16				1410	1	14		3	12			
10401	3	18							1410	1	14		4	12			
10401	4	18							1410	1	14		1	10			
									1410	1	14		2	10			
10401	2	16							1410	2	14						
									1410	2	14		1	12			
10405	1	18		1	16				1410	2	14		2	12			
10405	1	18		2	16				1410	2	14		1	12		1	10
10405	1	18		1	14				1410	2	14		2	12		1	10
10405	2	18							1410	2	14		3	12			
10405	2	18		1	16				1410	2	14		1	10			
10405	2	18		2	16				1410	2	14		2	10			
10405	2	18		1	14				1410	3	14						
10405	3	18							1410	3	14		1	12			
10405	3	18		1	16				1410	3	14		2	12			
10405	4	18							1410	3	14		1	12		1	10
10405	1	16		1	14				1410	3	14		1	10			
10405	2	16							1410	3	14		2	10			
10405	3	16							1410	4	14						
									1410	4	14		1	12			
10407	1	18		1	16				1410	4	14		1	10			
10407	1	18		2	16				1410	5	14						

Complete List of Wire Combinations

Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG	Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG
1410	1	12		1	10				30	4	22		1	16			
1410	2	12							30	4	22		1	14			
1410	2	12		1	10				30	5	22						
1410	3	12							30	5	22		1	18			
1410	3	12		1	10				30	1	20		1	18			
1410	4	12							30	1	20		2	18			
1410	5	12							30	1	20		3	18			
1410	2	10							30	1	20		1	16			
1410	3	10							30	1	20		2	16			
									30	1	20		1	14			
2SH	1	16		2	14				30	2	20						
2SH	2	16		1	14				30	2	20		1	18			
2SH	2	16		2	14				30	2	20		3	18			
2SH	3	16		1	14				30	2	20		1	16			
2SH	2	10							30	2	20		2	16			
									30	2	20		1	14			
30	1	22		1	20				30	3	20						
30	1	22		1	20		1	18	30	3	20		1	18			
30	1	22		1	20		1	16	30	3	20		1	16			
30	1	22		3	20				30	3	20		1	14			
30	1	22		4	20				30	4	20						
30	1	22		1	18				30	4	20		1	18			
30	1	22		2	18				30	4	20		1	16			
30	1	22		3	18				30	5	20						
30	1	22		4	18				30	1	18		1	16			
30	1	22		1	16				30	1	18		2	16			
30	1	22		2	16				30	1	18		1	14			
30	1	22		1	14				30	2	18						
30	2	22		1	20				30	3	18						
30	2	22		2	20				30	4	18						
30	2	22		3	20				30	1	16		1	14			
30	2	22		4	20				30	2	16						
30	2	22		1	18				30	3	16						
30	2	22		2	18												
30	2	22		3	18				31	1	18		1	16			
30	2	22		1	16				31	1	18		2	16			
30	2	22		2	16				31	1	18		3	16			
30	2	22		1	14				31	1	18		1	14			
30	3	22							31	1	18		2	14			
30	3	22		1	20				31	2	18						
30	3	22		2	20				31	2	18		1	16			
30	3	22		1	18				31	2	18		2	16			
30	3	22		1	16				31	2	18		1	14			
30	3	22		2	16				31	3	18						
30	3	22		1	14				31	3	18		1	16			
30	4	22							31	3	18		2	16			
30	4	22		1	20				31	3	18		1	14			
30	4	22		1	18				31	4	18						

Complete List of Wire Combinations

Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG	Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG
31	5	18							33	2	12						
31	1	16		1	14												
31	2	16							35	1	18		4	14			
31	2	16		1	14				35	1	18		5	14			
31	3	16							35	1	18		6	14			
31	4	16							35	1	18		2	12			
31	2	14							35	1	18		3	12			
									35	1	18		1	10			
33	1	18		1	14				35	1	18		2	10			
33	1	18		2	14				35	1	18		3	10			
33	1	18		3	14				35	2	18		4	16			
33	1	18		1	12				35	2	18		4	14			
33	2	18		1	16				35	2	18		6	14			
33	2	18		2	16				35	2	18		2	12			
33	2	18		3	16				35	2	18		3	12			
33	2	18		4	16				35	2	18		1	10			
33	2	18		1	14				35	2	18		2	10			
33	2	18		2	14				35	3	18		4	14			
33	2	18		1	12				35	3	18		2	12			
33	3	18		1	16				35	3	18		3	12			
33	3	18		2	16				35	3	18		1	10			
33	3	18		1	14				35	3	18		2	10			
33	3	18		2	14				35	4	18		2	12			
33	3	18		1	12				35	4	18		1	10			
33	4	18		1	16				35	4	18		2	10			
33	4	18		2	16				35	5	18		2	12			
33	4	18		1	14				35	5	18		1	10			
33	4	18		1	12				35	6	18		1	10			
33	5	18							35	6	18		1	18		1	12
33	1	16		1	14				35	1	16		4	14			
33	1	16		2	14				35	1	16		5	14			
33	1	16		3	14				35	1	16		6	14			
33	1	16		1	12				35	1	16		2	12			
33	2	16		1	14				35	1	16		3	12			
33	2	16		2	14				35	1	16		1	10			
33	2	16		1	12				35	1	16		2	10			
33	3	16							35	2	16		4	14			
33	3	16		1	14				35	2	16		6	14			
33	3	16		2	14				35	2	16		2	12			
33	3	16		1	12				35	2	16		3	12			
33	4	16							35	2	16		1	10			
33	4	16		1	14				35	2	16		2	10			
33	5	16							35	3	16		4	14			
33	1	14		1	12				35	3	16		2	12			
33	2	14							35	3	16		3	12			
33	2	14		1	12				35	3	16		1	10			
33	3	14							35	3	16		2	10			
33	4	14							35	4	16		2	12			

Complete List of Wire Combinations

Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG	Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG
35	4	16		1	10				35	5	12						
35	5	16							35	1	10		1	8			
35	5	16		2	12				35	2	10						
35	5	16		1	10				35	2	10		1	8			
35	6	16							35	3	10						
35	6	16		1	10				35	4	10						
35	6	16		1	16				35	2	8						
35	6	16		2	16												
35	1	14		1	12				329	1	22		1	20			
35	1	14		2	12				329	1	22		2	20			
35	1	14		3	12				329	1	22		3	20			
35	1	14		4	12				329	1	22		1	20		1	18
35	1	14		1	10				329	1	22		1	20		1	16
35	1	14		2	10				329	1	22		1	18			
35	1	14		3	10				329	1	22		2	18			
35	1	14		1	8				329	1	22		1	16			
35	2	14							329	2	22		1	20			
35	2	14		1	12				329	2	22		2	20			
35	2	14		2	12				329	2	22		3	20			
35	2	14		3	12				329	2	22		1	18			
35	2	14		1	10				329	2	22		1	16			
35	2	14		2	10				329	3	22						
35	2	14		1	8				329	3	22		1	20			
35	3	14							329	3	22		2	20			
35	3	14		1	12				329	3	22		1	18			
35	3	14		2	12				329	4	22						
35	3	14		1	10				329	4	22		1	20			
35	3	14		2	10				329	4	22		1	18			
35	3	14		1	8				329	5	22						
35	4	14							329	5	22		1	20			
35	4	14		1	12				329	1	20		1	18			
35	4	14		1	10				329	1	20		2	18			
35	5	14							329	1	20		1	16			
35	5	14		1	12				329	2	20						
35	6	14							329	2	20		1	18			
35	1	12		1	10				329	3	20						
35	1	12		2	10				329	4	20						
35	1	12		3	10				329	1	18		1	16			
35	1	12		1	8												
35	2	12							330	1	22		1	20			
35	2	12		1	10				330	1	22		1	20		1	18
35	2	12		2	10				330	1	22		1	20		1	16
35	2	12		1	8				330	1	22		2	20			
35	3	12							330	1	22		3	20			
35	3	12		1	10				330	1	22		4	20			
35	3	12		1	8				330	1	22		1	18			
35	4	12							330	1	22		2	18			
35	4	12		1	10				330	1	22		3	18			

Complete List of Wire Combinations

Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG	Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG
330	1	22		4	18				330	1	18		2	16			
330	1	22		1	16				330	1	18		1	14			
330	1	22		2	16				330	2	18						
330	1	22		1	14				330	3	18						
330	2	22		1	20				330	4	18						
330	2	22		2	20				330	1	16		1	14			
330	2	22		3	20				330	2	16						
330	2	22		1	18				330	3	16						
330	2	22		2	18												
330	2	22		3	18				331	1	18		1	16			
330	2	22		1	16				331	1	18		2	16			
330	2	22		2	16				331	1	18		3	16			
330	2	22		1	14				331	1	18		1	14			
330	3	22							331	1	18		2	14			
330	3	22		1	20				331	2	18						
330	3	22		2	20				331	2	18		1	16			
330	3	22		1	18				331	2	18		2	16			
330	3	22		1	16				331	2	18		2	14			
330	3	22		2	16				331	3	18						
330	3	22		1	14				331	3	18		1	16			
330	4	22							331	3	18		2	16			
330	4	22		1	20				331	4	18						
330	4	22		1	18				331	5	18						
330	4	22		1	16				331	1	16		1	14			
330	4	22		1	14				331	1	16		2	14			
330	5	22							331	2	16						
330	5	22		1	18				331	2	16		1	14			
330	1	20		1	18				331	3	16						
330	1	20		2	18				331	3	16		1	14			
330	1	20		3	18				331	4	16						
330	1	20		1	16				331	2	14						
330	1	20		2	16				331	3	14						
330	1	20		1	14												
330	2	20							333	1	18		2	14			
330	2	20		1	18				333	1	18		3	14			
330	2	20		3	18				333	1	18		4	14			
330	2	20		1	16				333	1	18		1	12			
330	2	20		2	16				333	1	18		2	12			
330	2	20		1	14				333	2	18		2	16			
330	3	20							333	2	18		3	16			
330	3	20		1	18				333	2	18		4	16			
330	3	20		1	16				333	2	18		1	14			
330	3	20		1	14				333	2	18		2	14			
330	4	20							333	2	18		1	12			
330	4	20		1	18				333	3	18		2	16			
330	4	20		1	16				333	3	18		1	14			
330	5	20							333	3	18		2	14			
330	1	18		1	16				333	3	18		1	12			

Complete List of Wire Combinations

Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG	Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG
333	4	18		2	16				335	3	20		1	16			
333	4	18		1	14				335	4	20						
333	5	18							335	4	20		1	18			
333	6	18							335	4	20		1	16			
333	1	16		2	14				335	5	20						
333	1	16		3	14				335	1	18		2	16			
333	1	16		1	12				335	1	18		3	16			
333	1	16		2	12				335	1	18		4	16			
333	2	16		1	14				335	1	18		5	16			
333	2	16		2	14				335	1	18		2	14			
333	2	16		1	12				335	1	18		3	14			
333	2	16		2	12				335	1	18		4	14			
333	3	16							335	1	18		5	14			
333	3	16		1	14				335	1	18		1	12			
333	3	16		2	14				335	1	18		2	12			
333	3	16		1	12				335	1	18		3	12			
333	4	16							335	2	18		1	16			
333	4	16		1	14				335	2	18		2	16			
333	5	16							335	2	18		3	16			
333	1	14		1	12				335	2	18		4	16			
333	1	14		2	12				335	2	18		1	14			
333	1	14		1	10				335	2	18		2	14			
333	2	14							335	2	18		3	14			
333	2	14		1	12				335	2	18		4	14			
333	2	14		1	10				335	2	18		1	12			
333	3	14							335	2	18		2	12			
333	4	14							335	2	18		3	12			
333	1	12		1	10				335	3	18						
333	2	12							335	3	18		1	16			
									335	3	18		2	16			
335	1	22		2	18				335	3	18		3	16			
335	2	22		1	16				335	3	18		1	14			
335	2	22		2	16				335	3	18		2	14			
335	2	22		3	16				335	3	18		3	14			
335	3	22		1	16				335	3	18		1	12			
335	4	22		1	16				335	3	18		2	12			
335	1	20		2	18				335	3	18		3	12			
335	1	20		3	18				335	4	18						
335	1	20		4	18				335	4	18		1	16			
335	2	20		1	18				335	4	18		2	16			
335	2	20		2	18				335	4	18		1	14			
335	2	20		3	18				335	4	18		2	14			
335	2	20		1	16				335	4	18		1	12			
335	2	20		2	16				335	4	18		2	12			
335	2	20		3	16				335	5	18						
335	3	20							335	5	18		1	12			
335	3	20		1	18				335	5	18		2	12			
335	3	20		2	18				335	6	18						

Complete List of Wire Combinations

Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG	Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG
63	2	16		1	12				65	3	16		3	12			
63	3	16		1	12				65	3	16		1	10			
63	1	14		1	12				65	4	16		2	12			
63	2	14		1	12				65	4	16		1	10			
63	1	12		1	12				65	5	16						
aluminum-aluminum																	
63	2	12							65	5	16		2	12			
copper-copper																	
65	1	18		4	14				65	5	16		1	10			
65	1	18		5	14				65	6	16						
65	1	18		6	14				65	6	16		1	10			
65	1	18		2	12				65	7	16						
65	1	18		3	12				65	1	14		1	12			
65	1	18		1	10				65	1	14		2	12			
65	1	18		2	10				65	1	14		3	12			
65	2	18		4	16				65	1	14		1	10			
65	2	18		4	14				65	1	14		2	10			
65	2	18		2	12				65	2	14						
65	2	18		3	12				65	2	14		1	12			
65	2	18		1	10				65	2	14		2	12			
65	2	18		2	10				65	2	14		1	10			
65	3	18		4	14				65	3	14						
65	3	18		2	12				65	3	14		1	12			
65	3	18		3	12				65	3	14		2	12			
65	3	18		1	10				65	3	14		1	10			
65	3	18		2	10				65	4	14						
65	4	18		2	12				65	4	14		1	12			
65	4	18		1	10				65	5	14						
65	4	18		2	10				65	5	14		1	12			
65	5	18		2	12				65	6	14						
65	5	18		1	10				65	1	12		1	10			
65	6	18		1	10				65	1	12		2	10			
65	1	16		4	14				65	2	12						
65	1	16		5	14				65	2	12		1	10			
65	1	16		6	14				65	3	12						
65	1	16		2	12				65	3	12						
65	1	16		3	12				65	4	12						
65	1	16		1	10				copper-aluminum								
65	1	16		2	10				65	1	18		3	12			
65	2	16		4	14				65	1	18		2	10			
65	2	16		2	12				65	2	18		3	12			
65	2	16		3	12				65	2	18		2	10			
65	2	16		1	10				65	3	18		3	12			
65	2	16		2	10				65	3	18		2	10			
65	2	16		2	12				65	4	18		2	10			
65	2	16		3	12				65	1	16		3	12			
65	2	16		1	10				65	1	16		2	10			
65	2	16		2	10				65	2	16		3	12			
65	3	16		4	14				65	2	16		2	10			
65	3	16		2	12				65	3	16		3	12			

Complete List of Wire Combinations

Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG	Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG
65	6	16		1	10				739	5	14						
65	1	14		1	12				739	5	14		1	10			
65	1	14		2	12				739	6	14						
65	1	14		3	12				739	1	12		2	10			
65	1	14		1	10				739	1	12		4	10			
65	1	14		2	10				739	1	12		2	8			
65	2	14		1	12				739	1	12		1	6			
65	2	14		2	12				739	2	12		1	10			
65	2	14		1	10				739	2	12		2	10			
65	3	14		1	12				739	2	12		2	8			
65	3	14		2	12				739	2	12		1	6			
65	3	14		1	10				739	3	12						
65	4	14		1	12				739	3	12		1	10			
65	5	14		1	12				739	3	12		2	10			
65	1	12		1	12				739	4	12						
65	1	12		2	12				739	4	12		1	10			
65	1	12		1	10				739	5	12						
65	1	12		2	10				739	6	12						
65	2	12		1	10				739	1	10		1	8			
									739	1	10		2	8			
									739	1	10		1	6			
									739	2	10						
									739	2	10		1	8			
									739	2	10		1	6			
									739	3	10						
									739	3	10		1	8			
									739	4	10						
									739	5	10						
									739	1	8		1	6			
									739	2	8						
									739	3	8						
									739	2	6						
									822	1	22		2	20			
									822	1	22		3	20			
									822	1	22		4	20			
									822	1	22		2	18			
									822	1	22		3	18			
									822	1	22		4	18			
									822	2	22		1	20			
									822	2	22		2	20			
									822	2	22		3	20			
									822	2	22		1	18			
									822	2	22		2	18			
									822	2	22		3	18			
									822	2	22		1	16			
									822	2	22		3	16			
									822	3	22		1	20			

Complete List of Wire Combinations

Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG	Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG
822	3	22		2	20				822	3	18		1	12			
822	3	22		1	18				822	4	18						
822	3	22		2	18				822	4	18		1	16			
822	3	22		1	16				822	4	18		2	16			
822	4	22							822	4	18		1	12			
822	4	22		1	20				822	5	18						
822	4	22		1	18				822	5	18		1	12			
822	4	22		1	16				822	6	18						
822	5	22							822	1	16		2	14			
822	1	20		2	18				822	1	16		3	14			
822	1	20		3	18				822	1	16		4	14			
822	1	20		4	18				822	1	16		2	12			
822	2	20		1	18				822	1	16		3	12			
822	2	20		2	18				822	1	16		4	12			
822	2	20		3	18				822	1	16		2	10			
822	2	20		1	16				822	2	16						
822	2	20		3	16				822	2	16		1	14			
822	3	20							822	2	16		2	14			
822	3	20		1	18				822	2	16		3	14			
822	3	20		2	18				822	2	16		1	12			
822	3	20		1	16				822	2	16		2	12			
822	4	20							822	2	16		3	12			
822	4	20		1	18				822	2	16		1	10			
822	4	20		1	16				822	2	16		2	10			
822	5	20							822	2	16		1	8			
822	1	18		2	16				822	3	16						
822	1	18		3	16				822	3	16		1	14			
822	1	18		4	16				822	3	16		1	12			
822	1	18		5	16				822	3	16		2	12			
822	1	18		2	14				822	3	16		1	8			
822	1	18		1	12				822	4	16						
822	1	18		2	12				822	4	16		1	14			
822	1	18		3	12				822	4	16		1	12			
822	2	18							822	4	16		1	8			
822	2	18		1	16				822	5	16						
822	2	18		2	16				822	1	14		2	12			
822	2	18		3	16				822	1	14		3	12			
822	2	18		4	16				822	1	14		4	12			
822	2	18		1	14				822	1	14		2	10			
822	2	18		2	14				822	2	14						
822	2	18		1	12				822	2	14		1	12			
822	2	18		2	12				822	2	14		2	12			
822	2	18		3	12				822	2	14		3	12			
822	3	18							822	2	14		1	10			
822	3	18		1	16				822	2	14		2	10			
822	3	18		2	16				822	2	14		1	8			
822	3	18		3	16				822	3	14						
822	3	18		1	14				822	3	14		1	12			

Complete List of Wire Combinations

Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG	Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG
822	3	14		2	12				833	2	20						
822	3	14		1	10				833	2	20		1	18			
822	3	14		1	8				833	2	20		2	18			
822	4	14							833	2	20		3	18			
822	4	14		1	12				833	2	20		1	16			
822	4	14		1	10				833	2	20		2	16			
822	5	14		1	10				833	2	20		3	16			
822	1	12		2	10				833	3	20						
822	2	12							833	3	20		1	18			
822	2	12		1	10				833	3	20		2	18			
822	2	12		1	8				833	3	20		1	16			
822	3	12							833	4	20						
822	3	12		1	10				833	4	20		1	18			
822	4	12							833	4	20		1	16			
822	5	12							833	5	20						
822	2	10							833	1	18		1	16			
822	3	10							833	1	18		2	16			
822	2	8							833	1	18		3	16			
									833	1	18		4	16			
833	1	22		2	20				833	1	18		5	16			
833	1	22		3	20				833	1	18		2	14			
833	1	22		4	20				833	1	18		1	12			
833	1	22		2	18				833	1	18		2	12			
833	1	22		3	18				833	1	18		3	12			
833	1	22		4	18				833	2	18						
833	2	22		1	20				833	2	18		1	16			
833	2	22		2	20				833	2	18		2	16			
833	2	22		3	20				833	2	18		3	16			
833	2	22		1	18				833	2	18		4	16			
833	2	22		2	18				833	2	18		1	14			
833	2	22		3	18				833	2	18		2	14			
833	2	22		1	16				833	2	18		1	12			
833	2	22		2	16				833	2	18		2	12			
833	2	22		3	16				833	2	18		3	12			
833	3	22							833	3	18						
833	3	22		1	20				833	3	18		1	16			
833	3	22		2	20				833	3	18		2	16			
833	3	22		1	18				833	3	18		3	16			
833	3	22		2	18				833	3	18		1	14			
833	3	22		1	16				833	3	18		1	12			
833	4	22							833	4	18						
833	4	22		1	20				833	4	18		1	16			
833	4	22		1	18				833	4	18		2	16			
833	4	22		1	16				833	4	18		1	12			
833	5	22							833	5	18						
833	1	20		2	18				833	5	18		1	12			
833	1	20		3	18				833	6	18						
833	1	20		4	18				833	1	16		2	14			

Complete List of Wire Combinations

Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG	Model Number	Number of Cond.	AWG	+	Number of Cond.	AWG	+	Number of Cond.	AWG
833	1	16		3	14				833	2	12		1	8			
833	1	16		4	14				833	3	12						
833	1	16		2	12				833	3	12		1	10			
833	1	16		3	12				833	4	12						
833	1	16		4	12				833	2	10						
833	1	16		2	10				833	3	10						
833	2	16															
833	2	16		1	14												
833	2	16		2	14												
833	2	16		3	14												
833	2	16		1	12												
833	2	16		2	12												
833	2	16		3	12												
833	2	16		1	10												
833	2	16		2	10												
833	2	16		1	8												
833	3	16															
833	3	16		1	14												
833	3	16		2	14												
833	3	16		1	12												
833	3	16		2	12												
833	3	16		1	8												
833	4	16															
833	4	16		1	14												
833	4	16		1	12												
833	4	16		1	8												
833	5	16															
833	1	14		2	12												
833	1	14		3	12												
833	1	14		4	12												
833	1	14		2	10												
833	2	14															
833	2	14		1	12												
833	2	14		2	12												
833	2	14		3	12												
833	2	14		1	10												
833	2	14		2	10												
833	3	14															
833	3	14		1	12												
833	3	14		2	12												
833	3	14		1	10												
833	3	14		1	8												
833	4	14															
833	4	14		1	12												
833	5	14															
833	1	12		2	10												
833	2	12															
833	2	12		1	10												

N° de Cat.	Page	N° de Cat.	Page
10-401	17	63D	15
10-405	17	63P	15
10-407	17	65C-CDN	15
10-411	17	65D	15
10-415	17	65P	15
10-417	17	739B	9
10-421	17	739C	9
10-425	17	739KP	9
10-427	17	739P	9
1SHD	13	739Q	9
1Shi	13	822BAR	7
1SHP	13	822BK	7
2SHD	13	822D	7
2Shi	13	822Q	7
2SHP	13	833BAR	5
30BK	11	833BK	5
30BP	11	833C	5
30P	11	833D	5
31BK	11	833KP	5
31D	11	833M	5
31M	11	833MFP	5
31P	11	833P	5
329BK	7	LD2-C	19
329BP	7	LD2C-D	19
329P	7	LD3-C	19
330BK	7	LD3C-D	19
330BP	7		
330P	7		
331B	7		
331BAR	7		
331BK	7		
331C	7		
331D	7		
331KP	7		
331M	7		
331P	7		
333B	7		
333BAR	7		
333BK	7		
333C	7		
333D	7		
333KP	7		
333M	7		
333P	7		
335B	7		
335BK	7		
335C	7		
335D	7		
335P	7		
335Q	7		
33BK	11		
33BP	11		
33D	11		
33P	11		
35BK	11		
35D	11		
35P	11		
35Q	11		
63B	15		
63C	15		

