



Electrical Components

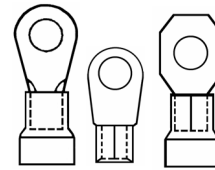
# Crimp Terminals

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## Ring Terminals

Stud Size	Non-Insulated (Brazead Seam)	Vinyl Insulated	Nylon Insulated	Polycarbonate Insulated	Vinyl 'Slim' Ring
<b>26-22 AWG Wire Range (Yellow)</b>					
2	N/a	N/a	321.000	N/a	N/a
3			321.001		
4			321.002		
6			321.003		
8			321.004		
10			321.005		
<b>Tools:</b>			500.062		
<b>22-16 AWG Wire Range (Red)</b>					
3	N/a	N/a	N/a	N/a	311.111
4	301.012	311.012	N/a	N/a	N/a
6	301.013	311.013	321.013	331.013	311.113
8	301.014	311.014	321.014	331.014	311.114
10	301.015	311.015	321.015	331.015	311.115
¼"	301.016	311.016	321.016	331.016	311.116
5/16"	301.017	311.017	N/a	N/a	311.117
3/8"	301.018	311.018			311.118
<b>16-14 AWG Wire Range (Blue)</b>					
4	301.022	311.022	N/a	N/a	N/a
6	301.023	311.023	321.023	331.023	311.123
8	301.024	311.024	321.024	331.024	311.124
10	301.025	311.025	321.025	331.025	311.125
¼"	301.026	311.026	321.026	331.026	311.126
5/16"	301.027	311.027	N/a	N/a	311.127
3/8"	301.028	311.028			311.128
<b>12-10 AWG Wire Range (Yellow)</b>					
6	301.033	311.033	321.033	N/a	N/a
8	301.034	311.034	321.034	331.034	311.134
10	301.035	311.035	321.035	331.035	311.135
¼"	301.036	311.036	321.036	331.036	311.136
5/16"	301.037	311.037	N/a	331.037	311.137
3/8"	301.038	311.038		311.138	
½"	301.039	311.039		N/a	311.139
<b>Tools:</b>	500.052	500.060, 500.064 or 500.066			

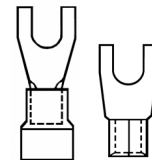


The most common solderless crimp terminals, **rings** provide a secure connection between control wiring and studs that are only disconnected by removal of the stud nut or stud screw. Ring terminals are especially ideal for permanent connections and when vibration or tugging on the wire is possible.

The unique design of the **slim ring** terminal assures snug, low-vibration connections between wiring and studs, especially when used in barrier terminal blocks. The flat sides of the terminal fit neatly between the barrier walls, preventing any side to side rotation of the terminal and consequent loosening of the stud.

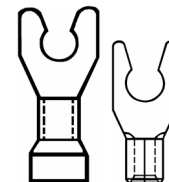
## Spade (Fork) Terminals

Stud Size	Non-Insulated (Brazead Seam)	Vinyl Insulated	Nylon Insulated	Polycarbonate Insulated
<b>26-22 AWG Wire Range (Yellow)</b>				
2	N/a	N/a	322.000	N/a
3			322.001	
4			322.002	
6			322.003	
8			322.004	
10			322.005	
<b>Tools:</b>			500.062	
<b>22-16 AWG Wire Range (Red)</b>				
4	302.012	312.012	N/a	N/a
6	302.013	312.013	322.013	332.013
8	302.014	312.014	322.014	332.014
10	302.015	312.015	322.015	332.015
¼"	302.016	312.016	322.016	332.016
<b>16-14 AWG Wire Range (Blue)</b>				
4	302.022	312.022	N/a	N/a
6	302.023	312.023	322.023	332.023
8	302.024	312.024	322.024	332.024
10	302.025	312.025	322.025	332.025
¼"	302.026	312.026	322.026	332.026
<b>12-10 AWG Wire Range (Yellow)</b>				
6	302.033	312.033	322.033	N/a
8	302.034	312.034	322.034	332.034
10	302.035	312.035	322.035	332.035
¼"	302.036	312.036	322.036	332.036
5/16"	302.037	312.037	N/a	332.037
3/8"	302.038	312.038		N/a
½"	302.039	N/a		N/a
<b>Tools:</b>	500.052	500.060, 500.064 or 500.066		



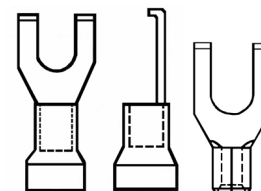
The **spade** terminal provides a secure connection between control wiring and studs. The open end of the spade requires that the stud need only be loosened in order to quickly apply or remove the terminal, and is especially useful if the wire may need to be disconnected at a later time.

<b>Locking Spade Terminals</b>		
Stud Size	Non-Insulated (Brazed Seam)	Vinyl Insulated
<b>22-16 AWG Wire Range (Red)</b>		
6	302.113	312.113
8	302.114	312.114
10	302.115	312.115
<b>16-14 AWG Wire Range (Blue)</b>		
6	302.123	312.123
8	302.124	312.124
10	302.125	312.125
<b>12-10 AWG Wire Range (Yellow)</b>		
6	302.133	312.133
8	302.134	312.134
10	302.135	312.135
¼"	302.136	312.136
<b>Tools</b>	500.052	500.060, 500.064 or 500.066



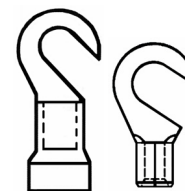
The **locking spade** features a dimpled mouth which helps prevent the terminal from becoming disconnected should the stud become loose.

<b>Flanged Spade Terminals</b>		
Stud Size	Non-Insulated (Brazed Seam)	Vinyl Insulated
<b>22-16 AWG Wire Range (Red)</b>		
4	302.212	312.212
6	302.213	312.213
8	302.214	312.214
10	302.215	312.215
<b>16-14 AWG Wire Range (Blue)</b>		
6	302.223	312.223
8	302.224	312.224
10	302.225	312.225
<b>12-10 AWG Wire Range (Yellow)</b>		
6	302.233	312.233
8	302.234	312.234
10	302.235	312.235
<b>Tools</b>	500.052	500.060, 500.064 or 500.066



Like the Locking Spade, the **Flanged Spade** terminal is designed to offer added security against accidental disconnection. Both lips of the mouth of the terminal are bent at 90 degrees, helping the terminal remain fixed even if the stud loosens slightly.

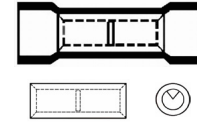
<b>Hook Terminals</b>		
Stud Size	Non-Insulated (Brazed Seam)	Vinyl Insulated
<b>22-16 AWG Wire Range (Red)</b>		
6	302.313	312.313
8	302.314	312.314
10	302.315	312.315
¼"	302.316	312.316
<b>16-14 AWG Wire Range (Blue)</b>		
6	302.323	312.323
8	302.324	312.324
10	302.325	312.325
¼"	302.326	312.326
<b>12-10 AWG Wire Range (Yellow)</b>		
6	302.333	312.333
8	302.334	312.334
10	302.335	312.335
¼"	302.336	312.336
5/16"	302.337	312.337
<b>Tools</b>	500.052	500.060, 500.064 or 500.066



**Hook** terminals, like spades, quickly slide on the stud once it is loosened. The shape of the hook helps prevent any accidental disconnection should tugging on the wire occur.

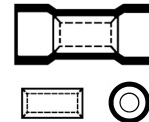


<b>Butt Splices</b>				
Non-Insulated (Braze Seam)	Vinyl Insulated (Flared)	Nylon Insulated (Straight)	Nylon Insulated (Flared)	Polycarbonate Insulated (Flared)
<b>26-22 AWG Wire Range (Yellow)</b>				
N/a	N/a	326.100	N/a	N/a
<b>22-16 AWG Wire Range (Red)</b>				
306.110	316.310	326.110	326.310	336.310
<b>16-14 AWG Wire Range (Blue)</b>				
306.120	316.320	326.120	326.320	336.320
<b>12-10 AWG Wire Range (Yellow)</b>				
306.130	316.330	326.130	326.330	336.330
Tool: 500.052		Tools: 500.060, 500.064 or 500.066		



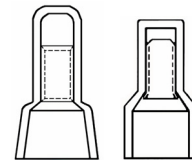
Use **Butt Splices** to permanently crimp two wires together. These splices require two crimps, one at either side of the metal barrel.

<b>Parallel Splices</b>	
Non-Insulated (Braze Seam)	Vinyl Insulated (Flared)
<b>22-16 AWG Wire Range (Red)</b>	
306.210	316.210
<b>16-14 AWG Wire Range (Blue)</b>	
306.220	316.220
<b>12-10 AWG Wire Range (Yellow)</b>	
306.230	316.230
Tool: 500.052	Tools: 500.060, 500.064 or 500.066



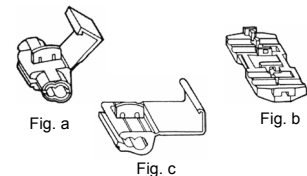
Like Butt Splices, **Parallel Splices** are used to permanently fix two wires together. This connector requires only one crimp to join both wires.

<b>Closed End Crimp Connectors</b>	
Nylon Insulated – Rounded Top	Nylon Insulated – Flat Top
<b>22-16 AWG Wire Range (Red)</b>	
326.810	326.811
<b>16-14 AWG Wire Range (Blue)</b>	
326.820	326.821
<b>12-10 AWG Wire Range (Yellow)</b>	
326.830	326.831
<b>8 AWG Wire Range</b>	
326.840	326.841
500.050	



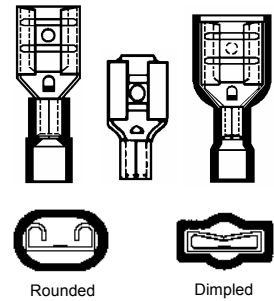
A **Closed End Crimp Connector** is used to permanently join two wires together. Its shape and purpose resemble that of a wire nut, but once crimped, it cannot be undone.  
Colour: Natural

<b>Quick Splices</b>
Polypropylene Insulated Quick Tap/Splice
<b>22-18 AWG Wire Range (Red)</b>
316.910 (figure b)
<b>18-14 AWG Wire Range (Blue)</b>
316.920 (figure a)
316.921 (figure b)
<b>12-10 AWG Wire Range (Yellow)</b>
316.930 (figure c)



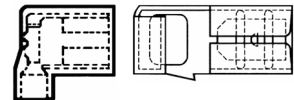
**Quick Splices** are used to join two wires or tap onto a line quickly, and without the need for special crimping tools.

<b>Female Disconnects</b>						
Tab Size (inches)	Non-Insulated (ButtedSeam)	Vinyl Insulated	Vinyl Fully Insulated	Nylon Insulated	Nylon Fully Insulated (Rounded)	Nylon Fully Insulated (Dimpled)
<b>26-22 AWG Wire Range (Yellow)</b>						
.110 x .020	N/a	314.000	N/a	N/a	N/a	N/a
.110 x .032		314.001				
<b>Tools:</b>		500.062				
<b>22-16 AWG Wire Range (Red)</b>						
.110 x .020	304.010	314.010	N/a	324.010	324.110	N/a
.110 x .032	304.011	314.011		324.011	324.111	
.187 x .020	304.012	314.012	314.112	324.012	324.112	N/a
.187 x .032	304.013	314.013	314.113	324.013	324.113	
.205 x .020	N/a	314.014	N/a	N/a	N/a	324.215
.250 x .032	304.015	314.015	314.115	324.015	324.115	
.312 x .032	N/a	314.016	N/a	N/a	N/a	
<b>16-14 AWG Wire Range (Blue)</b>						
.110 x .020	N/a	314.020	N/a	324.020	N/a	N/a
.110 x .032		314.021		324.021		
.187 x .020		314.022	314.122	324.022	324.122	
.187 x .032		314.023	314.123	324.023	324.123	
.205 x .020		314.024	N/a	N/a	N/a	
.250 x .032	304.025	314.025	314.125	324.025	324.125	324.225
.312 x .032	N/a	314.026	N/a	N/a	N/a	N/a
.375 x .047		314.027				
<b>12-10 AWG Wire Range (Yellow)</b>						
.187 x .020	N/a	314.032	N/a	N/a	N/a	N/a
.250 x .032	304.035	314.035	314.135	324.035	324.135	324.235
.375 x .047	N/a	314.037	N/a	324.037	N/a	N/a
<b>Tools:</b>		500.052, 500.060, 500.064 or 500.066				



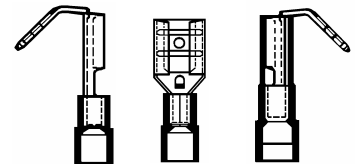
Used in conjunction with a male tab, **Female Disconnects** are found in a variety of applications including Automotive Harnessing, Electronics, battery connections, etc.

<b>Flag Disconnects</b>		
Tab Size	Non-Insulated	Nylon Fully Insulated
<b>22-16 AWG Wire Range (Red)</b>		
.187 x .020	N/a	324.712
.187 x .032		324.713
.250 x .032	304.715	324.715
<b>16-14 AWG Wire Range (Blue)</b>		
.187 x .020	N/a	324.722
.187 x .032		324.723
.250 x .032	304.725	324.725
<b>Tools:</b>		500.069



Use **Flag Disconnects** instead of female disconnects when space is limited and/or a right angled connection is desired.

<b>Piggyback Disconnects</b>		
Tab Size (inches)	Vinyl Insulated	Nylon Fully Insulated
<b>22-16 AWG Wire Range (Red)</b>		
.250 x .032	314.615	324.515
<b>16-14 AWG Wire Range (Blue)</b>		
.250 x .032	314.625	324.525
<b>12-10 AWG Wire Range (Yellow)</b>		
.250 x .032	314.635	N/a
<b>Tools:</b>		500.060, 500.064 or 500.066

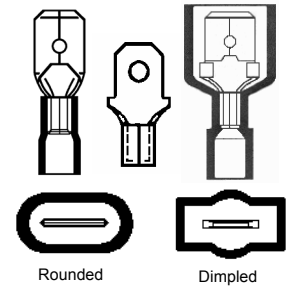


Use **Piggyback Disconnects** to connect three or more wires together. Two or more Piggybacks can be connected together as can other male tabs and female disconnects.

### Male Disconnects (Tabs)

Tab Size (inches)	Non-Insulated (Butted Seam)	Vinyl Insulated	Nylon Insulated	Nylon Fully Insulated (Rounded)	Nylon Fully Insulated (Dimpled)
<b>22-16 AWG Wire Range (Red)</b>					
.110 x .020	N/a	315.010	325.010	N/a	N/a
.110 x .032		315.011	325.011		
.187 x .020		315.012	325.012		
.187 x .032	305.013	315.013	325.013	325.115	325.215
.250 x .032	305.015	315.015	325.015		
<b>16-14 AWG Wire Range (Blue)</b>					
.187 x .020	N/a	315.022	325.022	N/a	N/a
.187 x .032		315.023	325.023		
.250 x .032		305.025	315.025		
<b>12-10 AWG Wire Range (Yellow)</b>					
.250 x .032	305.035	315.035	325.035	325.135	325.235
<b>Tools:</b>	500.052	500.060, 500.064 or 500.066			

\*For approximate dimensions, please contact ITC.



Rounded

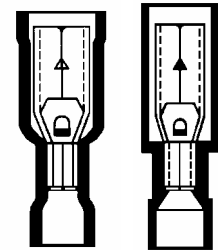
Dimpled

Mate **Male disconnects** with female disconnects, flags, or piggy backs to quickly join two wires together.

### Female Bullet Connectors

Bullet Diam.	Vinyl Fully Insulated	Nylon Fully Insulated
<b>22-16 AWG Wire Range (Red)</b>		
.156"	314.911	324.911
<b>16-14 AWG Wire Range (Blue)</b>		
.156"	314.921	324.921
.195"	314.922	324.922
<b>12-10 AWG Wire Range (Yellow)</b>		
.195"	314.932	N/a
<b>Tools:</b>	500.060, 500.064 or 500.066	

\*For approximate dimensions, please contact ITC.

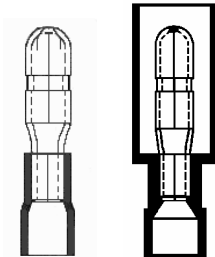


Primarily found in automotive applications, **Male and Female Bullet Connectors** are used as a slimmer alternative to male and female disconnects.

### Male Bullet Connectors

Bullet Diam.	Vinyl Insulated	Nylon Fully Insulated
<b>22-16 AWG Wire Range (Red)</b>		
.156"	315.811	325.911
<b>16-14 AWG Wire Range (Blue)</b>		
.156"	315.821	325.921
.195"	315.822	N/a
<b>12-10 AWG Wire Range (Yellow)</b>		
.195"	315.832	N/a
<b>Tools:</b>	500.060, 500.064 or 500.066	

\*For approximate dimensions, please contact ITC.



### Quick Splice w/ Disconnect

Polypropylene Insulated Quick Splice w/ Female Disconnect	Polypropylene Insulated Quick Splice w/ Bullet Receptacle
<b>22-16 AWG Wire Range (Red)</b>	
316.615 (figure a)	N/a
<b>16-14 AWG Wire Range (Blue)</b>	
316.625 (figure a)	316.725 (figure b)
<b>12-10 AWG Wire Range (Yellow)</b>	
316.635 (figure a)	N/a

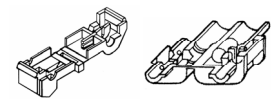
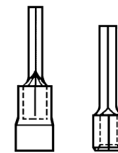


Figure a

Figure b

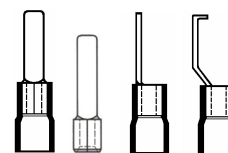
Quickly snap one of these **Quick Splices** onto a wire and easily tap onto it with a Male Tab (.250" x .032") or Male Bullet (.156").

Pin Terminals		
Pin Lgth.	Non-Insulated (Brazead Seam)	Vinyl Insulated
<b>26-22 AWG Wire Range (Yellow)</b>		
9mm	N/a	323.601 (nylon ins.)
<b>Tools</b>		500.062
<b>22-16 AWG Wire Range (Red)</b>		
10mm	303.610	313.610
12mm	303.612	313.612
16mm	303.615	313.615
<b>16-14 AWG Wire Range (Blue)</b>		
10mm	303.620	313.620
12mm	303.622	313.622
16mm	303.625	313.625
<b>12-10 AWG Wire Range (Yellow)</b>		
14mm	303.634	313.632
<b>Tools</b>	500.052	500.060, 500.064 or 500.066



Use **Pins** for extra protection when connecting wires into the screw-down cage-clamps of terminal blocks or terminal strips

Blade & Lipped Blade Terminals			
Blade Lgth.	Non-Insulated Blade (Butted Seam)	Vinyl Insulated Blade	Vinyl Insulated Lipped Blade
<b>22-16 AWG Wire Range (Red)</b>			
13mm	303.014	313.014	N/a
17mm	303.015	313.015	313.111
<b>16-14 AWG Wire Range (Blue)</b>			
13mm	303.024	313.024	N/a
17mm	303.025	313.025	313.121
<b>12-10 AWG Wire Range (Yellow)</b>			
13mm	303.034	313.034	N/a
17mm	N/a	N/a	313.131
<b>Tools</b>	500.052	500.060, 500.064 or 500.066	



Like the Pin terminal, the **Blade** terminal is designed for entry into terminal blocks or terminal strips. Because of its flat profile, two blades can easily be stacked (back to back) into the same terminal entry. The **Lipped Blade** has a flanged end for added protection against vibration.

## Terminals on Tape (in spools)

ITC offers a selection of solderless crimp terminals mounted on mylar tape in spools of 500 or 1000 pieces (depending on terminal size and style) for use on most common high-volume crimping machines. Many Vinyl Insulated Rings, Spades and Female Disconnects on tape are available from stock, and with lead time, ITC can provide taped versions of most of the non-insulated, vinyl insulated or nylon insulated terminals found in our catalogue. To inquire about, or order terminals on tape, find the loose piece part number in our catalogue and change the second digit to:

Non-Insulated Terminals	Vinyl Insulated Terminals	Nylon Insulated Terminals
Change the Second Digit in part number from '0' to '8'	Change the Second Digit in part number from '1' to '6'	Change the Second Digit in part number from '2' to '7'

For information on tooling that can be provided by ITC, please refer to the Tool Charts in this catalogue or call an ITC representative.

