

# Altech Corp.®

Serving the Automation & Control Industry since 1984



Quality  
Endorsed  
Company



Now UL  
Recognized



## Ferrules & Crimpers

# Altech Ferrules

Since 1984, Altech Corporation has grown to become a leading supplier of automation and industrial control components. Headquartered in Flemington, NJ, Altech has an experienced staff of engineering, manufacturing and sales personnel to provide the highest quality products with superior service. This is the Altech Commitment!

Our well trained technical experts welcome the opportunity to answer your technical questions and provide solutions to your automation and control needs.

Give us a call or visit [www.altechcorp.com](http://www.altechcorp.com).



Altech Corp. Headquarters  
Flemington, New Jersey

## Quality Commitment

Altech's control components meet diverse national and international standards such as UL, NEC, CSA, IEC, VDE and more. Altech provides superior customer service and delivery through Total Quality Management and Continuous Process Improvement. Altech is ISO 9001 approved. We perform these services with honesty and integrity and are committed to achieve these goals.



# Introduction & Table of Contents



## Introduction

UL recognized ferrules are now available for the control circuit of your UL508A panel! A wide variety of single and twin insulated ferrules for all your stranded wire applications. No more loose strands, no more loosening terminations, and no more shorts caused by stray strands. Ferrules are made of tin-plated copper and insulating collar is made of polypropylene plastic.

For over 30 years Altech has been supplying the fullest line of Wire Ferrules available to the industry. This catalog helps to further our service to our customers by providing them an easy way to find the wire ferrule and tool they'll need to do the job.

A complete offering of UL, CSA, CE, DIN Standard and Industry standard Ferrules, listed along with a large variety of UL Recognized hand crimpers and semi-auto crimpers, Altech strives to be our customers strongest supplier.

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### UL Ferrules

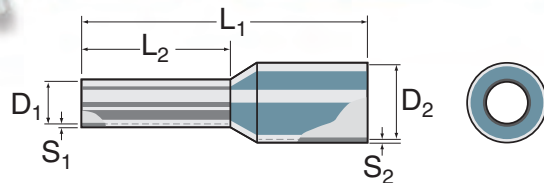
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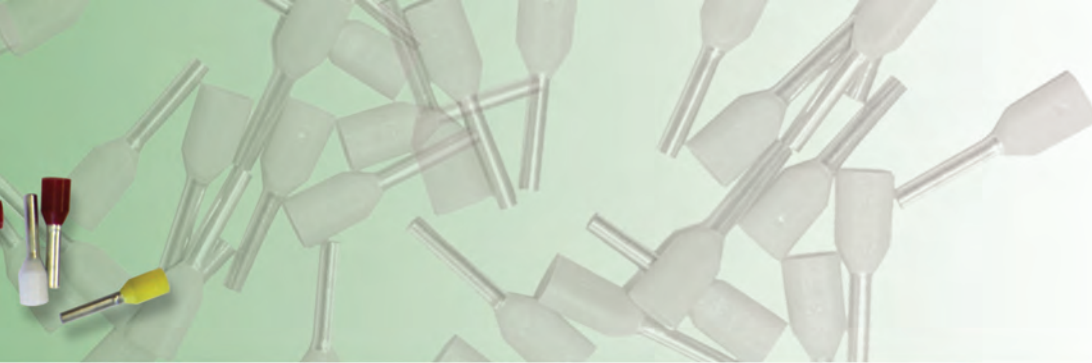


**Now UL  
Recognized**  
with use of specific crimpers



| AWG | mm <sup>2</sup> | L <sub>2</sub><br>Barrel Length<br>(mm) | Industry Standard<br>color | Cat. No.   | DIN Standard<br>color | Cat. No.    | Dimensions (mm) |                |                |                |                |                | Std.<br>Pack |
|-----|-----------------|-----------------------------------------|----------------------------|------------|-----------------------|-------------|-----------------|----------------|----------------|----------------|----------------|----------------|--------------|
|     |                 |                                         |                            |            |                       |             | L <sub>1</sub>  | L <sub>2</sub> | D <sub>1</sub> | S <sub>1</sub> | D <sub>2</sub> | S <sub>2</sub> |              |
| 26  | 0.14            | 6                                       | grey                       | ● FII2606  |                       |             | 10              | 6              | 0.6            | 0.15           | 1.5            | 0.25           | 500          |
| 26  | 0.14            | 8                                       | grey                       | ● FII2608  |                       |             | 12              | 8              | 0.6            | 0.15           | 1.5            | 0.25           | 500          |
| 24  | 0.25            | 6                                       | light blue                 | ● FII2406  |                       |             | 10              | 6              | 0.85           | 0.15           | 1.8            | 0.25           | 500          |
| 24  | 0.25            | 8                                       | light blue                 | ● FII2408  |                       |             | 12              | 8              | 0.85           | 0.15           | 1.8            | 0.25           | 500          |
| 24  | 0.25            | 12                                      | light blue                 | ● FII2412  |                       |             | 16              | 12             | 0.85           | 0.15           | 1.8            | 0.25           | 500          |
| 22  | 0.34            | 6                                       | turquoise                  | ● FII2206  |                       |             | 10              | 6              | 0.85           | 0.15           | 2              | 0.25           | 500          |
| 22  | 0.34            | 8                                       | turquoise                  | ● FII2208  |                       |             | 12              | 8              | 0.85           | 0.15           | 2              | 0.25           | 500          |
| 22  | 0.34            | 12                                      | turquoise                  | ● FII2212  |                       |             | 16              | 12             | 0.85           | 0.15           | 2              | 0.25           | 500          |
| 20  | 0.5             | 6                                       | orange                     | ● FII2006  | white                 | ○ FID2006   | 12              | 6              | 1              | 0.15           | 2.6            | 0.25           | 500          |
| 20  | 0.5             | 8                                       | orange                     | ● FII2008  | white                 | ○ FID2008   | 14              | 8              | 1              | 0.15           | 2.6            | 0.25           | 500          |
| 20  | 0.5             | 10                                      | orange                     | ● FII2010  | white                 | ○ FID2010   | 16              | 10             | 1              | 0.15           | 2.6            | 0.25           | 500          |
| 20  | 0.5             | 12                                      | orange                     | ● FII2012  | white                 | ○ FID2012   | 18              | 12             | 1              | 0.15           | 2.6            | 0.25           | 500          |
| 18  | 0.75            | 6                                       | white                      | ○ FII1806W | grey                  | ● FID1806GR | 12              | 6              | 1.2            | 0.15           | 2.8            | 0.25           | 500          |
| 18  | 0.75            | 8                                       | white                      | ○ FII1808W | grey                  | ● FID1808GR | 14              | 8              | 1.2            | 0.15           | 2.8            | 0.25           | 500          |
| 18  | 0.75            | 10                                      | white                      | ○ FII1810W | grey                  | ● FID1810GR | 16              | 10             | 1.2            | 0.15           | 2.8            | 0.25           | 500          |
| 18  | 0.75            | 12                                      | white                      | ○ FII1812W | grey                  | ● FID1812GR | 18              | 12             | 1.2            | 0.15           | 2.8            | 0.25           | 500          |
| 18  | 1               | 6                                       | yellow                     | ● FII1806Y | red                   | ● FID1806R  | 12              | 6              | 1.4            | 0.15           | 3              | 0.25           | 500          |
| 18  | 1               | 8                                       | yellow                     | ● FII1808Y | red                   | ● FID1808R  | 14              | 8              | 1.4            | 0.15           | 3              | 0.25           | 500          |
| 18  | 1               | 10                                      | yellow                     | ● FII1810Y | red                   | ● FID1810R  | 16              | 10             | 1.4            | 0.15           | 3              | 0.25           | 500          |
| 18  | 1               | 12                                      | yellow                     | ● FII1812Y | red                   | ● FID1812R  | 18              | 12             | 1.4            | 0.15           | 3              | 0.25           | 500          |
| 16  | 1.5             | 6                                       | red                        | ● FII1606  | black                 | ● FID1606   | 12              | 6              | 1.7            | 0.15           | 3.5            | 0.25           | 500          |
| 16  | 1.5             | 8                                       | red                        | ● FII1608  | black                 | ● FID1608   | 14              | 8              | 1.7            | 0.15           | 3.5            | 0.25           | 500          |
| 16  | 1.5             | 10                                      | red                        | ● FII1610  | black                 | ● FID1610   | 16              | 10             | 1.7            | 0.15           | 3.5            | 0.25           | 500          |
| 16  | 1.5             | 12                                      | red                        | ● FII1612  | black                 | ● FID1612   | 18              | 12             | 1.7            | 0.15           | 3.5            | 0.25           | 500          |
| 16  | 1.5             | 18                                      | red                        | ● FII1618  | black                 | ● FID1618   | 24              | 18             | 1.7            | 0.15           | 3.5            | 0.25           | 500          |
| 14  | 2.08            | 8                                       | yellow                     | ● FII1408Y |                       |             | 15              | 8              | 2.05           | 0.15           | 4.2            | 0.3            | 500          |
| 14  | 2.5             | 6                                       |                            |            | blue                  | ● FID1406   | 13              | 6              | 2.2            | 0.15           | 4.2            | 0.25           | 500          |
| 14  | 2.5             | 8                                       |                            |            | blue                  | ● FID1408   | 15              | 8              | 2.2            | 0.15           | 4.2            | 0.25           | 500          |
| 14  | 2.5             | 10                                      |                            |            | blue                  | ● FID1410   | 17              | 10             | 2.2            | 0.15           | 4.2            | 0.25           | 500          |
| 14  | 2.5             | 12                                      |                            |            | blue                  | ● FID1412   | 19              | 12             | 2.2            | 0.15           | 4.2            | 0.25           | 500          |
| 14  | 2.5             | 18                                      |                            |            | blue                  | ● FID1418   | 25              | 18             | 2.2            | 0.15           | 4.2            | 0.25           | 500          |
| 12  | 4               | 8                                       |                            |            | grey                  | ● FID1208   | 16              | 8              | 2.8            | 0.2            | 4.8            | 0.3            | 500          |
| 12  | 4               | 10                                      |                            |            | grey                  | ● FID1210   | 18              | 10             | 2.8            | 0.2            | 4.8            | 0.3            | 500          |
| 12  | 4               | 12                                      |                            |            | grey                  | ● FID1212   | 20              | 12             | 2.8            | 0.2            | 4.8            | 0.3            | 500          |
| 12  | 4               | 18                                      |                            |            | grey                  | ● FID1218   | 26              | 18             | 2.8            | 0.2            | 4.8            | 0.3            | 100          |
| 10  | 6               | 12                                      | black                      | ● FII1012  | yellow                | ● FID1012   | 20              | 12             | 3.5            | 0.2            | 6.3            | 0.3            | 100          |
| 10  | 6               | 18                                      | black                      | ● FII1018  | yellow                | ● FID1018   | 26              | 18             | 3.5            | 0.2            | 6.3            | 0.3            | 100          |
| 8   | 10              | 12                                      | ivory                      | ● FII0812  | red                   | ● FID0812   | 22              | 12             | 4.5            | 0.2            | 7.6            | 0.4            | 100          |
| 8   | 10              | 18                                      | ivory                      | ● FII0818  | red                   | ● FID0818   | 28              | 18             | 4.5            | 0.2            | 7.6            | 0.4            | 100          |
| 6   | 16              | 12                                      | green                      | ● FII0612  | blue                  | ● FID0612   | 22              | 12             | 5.8            | 0.2            | 8.8            | 0.4            | 100          |
| 6   | 16              | 18                                      | green                      | ● FII0618  | blue                  | ● FID0618   | 28              | 18             | 5.8            | 0.2            | 8.8            | 0.4            | 100          |
| 4   | 25              | 16                                      | brown                      | ● FII0416  | yellow                | ● FID0416   | 30              | 16             | 7.3            | 0.2            | 11.2           | 0.4            | 50           |
| 4   | 25              | 18                                      | brown                      | ● FII0418  | yellow                | ● FID0418   | 32              | 18             | 7.3            | 0.2            | 11.2           | 0.4            | 50           |
| 4   | 25              | 22                                      | brown                      | ● FII0422  | yellow                | ● FID0422   | 36              | 22             | 7.3            | 0.2            | 11.2           | 0.4            | 50           |
| 2   | 35              | 16                                      | beige                      | ● FII0216  | red                   | ● FID0216   | 30              | 16             | 8.3            | 0.2            | 12.7           | 0.4            | 50           |
| 2   | 35              | 18                                      | beige                      | ● FII0218  | red                   | ● FID0218   | 32              | 18             | 8.3            | 0.2            | 12.7           | 0.4            | 50           |
| 2   | 35              | 25                                      | beige                      | ● FII0225  | red                   | ● FID0225   | 39              | 25             | 8.3            | 0.2            | 12.7           | 0.4            | 50           |
| 1   | 50              | 20                                      | olive                      | ● FII0120  | blue                  | ● FID0120   | 36              | 20             | 10.3           | 0.3            | 15             | 0.5            | 50           |
| 1   | 50              | 25                                      | olive                      | ● FII0125  | blue                  | ● FID0125   | 41              | 25             | 10.3           | 0.3            | 15             | 0.5            | 50           |
| 1   | 50              | 30                                      | olive                      | ● FII0130  | blue                  | ● FID0130   | 46              | 30             | 10.3           | 0.3            | 15             | 0.5            | 50           |

For Smaller Packs see page 6.



**Crimpers**

| AWG | <br>Crimpit<br>F 4 | <br>Crimpit<br>F 6 gyra | <br>Crimpit<br>F 6 EN | <br>Crimpit<br>F 6 auto | <br>Crimpit<br>F 6 L | <br>Crimpit<br>F 16 / F 16 L | <br>Crimpit<br>F 25 L | <br>Crimpit<br>F 50 L |
|-----|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| 26  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 26  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 24  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 24  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 24  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 22  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 22  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 22  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 20  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 20  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 20  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 20  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 18  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 18  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 18  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 18  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 18  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 18  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 18  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 16  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 16  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 16  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 16  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 16  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 14  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 14  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 14  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 14  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 14  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 14  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 12  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 12  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 12  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 12  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 10  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 10  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 8   |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 8   |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 6   |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 6   |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 4   |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 4   |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 4   |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2   |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2   |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2   |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 1   |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 1   |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 1   |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |

With the use of these crimpers the Ferrules are UL Recognized. 



| AWG | mm <sup>2</sup> | L <sub>2</sub>     |  | Industry Standard color | Cat. No.    | DIN Standard color | Cat. No.   | Dimensions (mm) |                |                |                |                |                | Std.* Pack |
|-----|-----------------|--------------------|--|-------------------------|-------------|--------------------|------------|-----------------|----------------|----------------|----------------|----------------|----------------|------------|
|     |                 | Barrel Length (mm) |  |                         |             |                    |            | L <sub>1</sub>  | L <sub>2</sub> | D <sub>1</sub> | S <sub>2</sub> | D <sub>2</sub> | S <sub>2</sub> |            |
| 26  | 0.14            | 6                  |  | grey                    | ● FII2606M  |                    |            | 10              | 6              | 0.6            | 0.15           | 1.5            | 0.25           | 100        |
| 26  | 0.14            | 8                  |  | grey                    | ● FII2608M  |                    |            | 12              | 8              | 0.6            | 0.15           | 1.5            | 0.25           | 100        |
| 24  | 0.25            | 6                  |  | light blue              | ● FII2406M  |                    |            | 10              | 6              | 0.85           | 0.15           | 1.8            | 0.25           | 100        |
| 24  | 0.25            | 8                  |  | light blue              | ● FII2408M  |                    |            | 12              | 8              | 0.85           | 0.15           | 1.8            | 0.25           | 100        |
| 24  | 0.25            | 12                 |  | light blue              | ● FII2412M  |                    |            | 16              | 12             | 0.85           | 0.15           | 1.8            | 0.25           | 100        |
| 22  | 0.34            | 6                  |  | turquoise               | ● FII2206M  |                    |            | 10              | 6              | 0.85           | 0.15           | 2              | 0.25           | 100        |
| 22  | 0.34            | 8                  |  | turquoise               | ● FII2208M  |                    |            | 12              | 8              | 0.85           | 0.15           | 2              | 0.25           | 100        |
| 22  | 0.34            | 12                 |  | turquoise               | ● FII2212M  |                    |            | 16              | 12             | 0.85           | 0.15           | 2              | 0.25           | 100        |
| 20  | 0.5             | 6                  |  | orange                  | ● FII2006M  | white ○            | FID2006M   | 12              | 6              | 1              | 0.15           | 2.6            | 0.25           | 100        |
| 20  | 0.5             | 8                  |  | orange                  | ● FII2008M  | white ○            | FID2008M   | 14              | 8              | 1              | 0.15           | 2.6            | 0.25           | 100        |
| 20  | 0.5             | 10                 |  | orange                  | ● FII2010M  | white ○            | FID2010M   | 16              | 10             | 1              | 0.15           | 2.6            | 0.25           | 100        |
| 20  | 0.5             | 12                 |  | orange                  | ● FII2012M  | white ○            | FID2012M   | 18              | 12             | 1              | 0.15           | 2.6            | 0.25           | 100        |
| 18  | 0.75            | 6                  |  | white                   | ○ FII1806WM | grey ●             | FID1806GRM | 12              | 6              | 1.2            | 0.15           | 2.8            | 0.25           | 100        |
| 18  | 0.75            | 8                  |  | white                   | ○ FII1808WM | grey ●             | FID1808GRM | 14              | 8              | 1.2            | 0.15           | 2.8            | 0.25           | 100        |
| 18  | 0.75            | 10                 |  | white                   | ○ FII1810WM | grey ●             | FID1810GRM | 16              | 10             | 1.2            | 0.15           | 2.8            | 0.25           | 100        |
| 18  | 0.75            | 12                 |  | white                   | ○ FII1812WM | grey ●             | FID1812GRM | 18              | 12             | 1.2            | 0.15           | 2.8            | 0.25           | 100        |
| 18  | 1               | 6                  |  | yellow                  | ● FII1806YM | red ●              | FID1806RM  | 12              | 6              | 1.4            | 0.15           | 3              | 0.25           | 100        |
| 18  | 1               | 8                  |  | yellow                  | ● FII1808YM | red ●              | FID1808RM  | 14              | 8              | 1.4            | 0.15           | 3              | 0.25           | 100        |
| 18  | 1               | 10                 |  | yellow                  | ● FII1810YM | red ●              | FID1810RM  | 16              | 10             | 1.4            | 0.15           | 3              | 0.25           | 100        |
| 18  | 1               | 12                 |  | yellow                  | ● FII1812YM | red ●              | FID1812RM  | 18              | 12             | 1.4            | 0.15           | 3              | 0.25           | 100        |
| 16  | 1.5             | 6                  |  | red                     | ● FII1606M  | black ●            | FID1606M   | 12              | 6              | 1.7            | 0.15           | 3.5            | 0.25           | 100        |
| 16  | 1.5             | 8                  |  | red                     | ● FII1608M  | black ●            | FID1608M   | 14              | 8              | 1.7            | 0.15           | 3.5            | 0.25           | 100        |
| 16  | 1.5             | 10                 |  | red                     | ● FII1610M  | black ●            | FID1610M   | 16              | 10             | 1.7            | 0.15           | 3.5            | 0.25           | 100        |
| 16  | 1.5             | 12                 |  | red                     | ● FII1612M  | black ●            | FID1612M   | 18              | 12             | 1.7            | 0.15           | 3.5            | 0.25           | 100        |
| 14  | 2.08            | 8                  |  | yellow                  | ● FII1408YM |                    |            | 15              | 8              | 2.05           | 0.15           | 4.2            | 0.25           | 100        |
| 14  | 2.5             | 6                  |  | blue                    | ● FID1406M  |                    |            | 13              | 6              | 2.2            | 0.15           | 4.2            | 0.25           | 100        |
| 14  | 2.5             | 8                  |  | blue                    | ● FID1408M  |                    |            | 15              | 8              | 2.2            | 0.15           | 4.2            | 0.25           | 100        |
| 14  | 2.5             | 10                 |  | blue                    | ● FID1410M  |                    |            | 17              | 10             | 2.2            | 0.15           | 4.2            | 0.25           | 100        |
| 14  | 2.5             | 12                 |  | blue                    | ● FID1412M  |                    |            | 19              | 12             | 2.2            | 0.15           | 4.8            | 0.25           | 100        |
| 12  | 4               | 8                  |  | grey                    | ● FID1208M  |                    |            | 16              | 8              | 2.8            | 0.2            | 4.8            | 0.3            | 50         |
| 12  | 4               | 10                 |  | grey                    | ● FID1210M  |                    |            | 18              | 10             | 2.8            | 0.2            | 4.8            | 0.3            | 50         |
| 10  | 6               | 12                 |  | black                   | ● FII1012M  | yellow ●           | FID1012M   | 20              | 12             | 3.5            | 0.2            | 6.3            | 0.3            | 20         |
| 8   | 10              | 12                 |  | ivory                   | ● FII0812M  | red ●              | FID0812M   | 22              | 12             | 4.5            | 0.2            | 7.6            | 0.4            | 20         |

For Larger Packs see page 4.

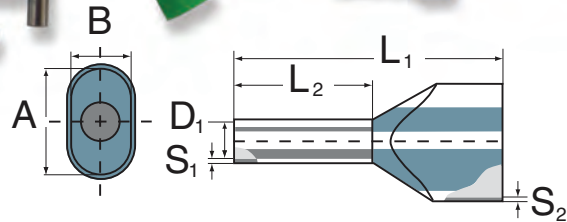


**Crimpers**

|     |  |  |  |  |  |  |  |  |
|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| AWG | Crimpit F 4                                                                       | Crimpit F 6 gyra                                                                  | Crimpit F 6 EN                                                                    | Crimpit F 6 auto                                                                  | Crimpit F 6 L                                                                      | Crimpit F 16 / F 16 L                                                               | Crimpit F 25 L                                                                      | Crimpit F 50 L                                                                      |
| 26  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 26  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 24  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 24  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 24  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 22  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 22  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 22  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 20  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 20  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 20  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 20  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 18  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 18  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 18  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 18  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 18  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 18  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 18  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 16  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 16  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 16  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 16  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 14  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 14  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 14  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 14  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 12  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 12  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 10  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| 8   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |

With the use of these crimpers the Ferrules are UL Recognized. 

**Now UL  
Recognized**  
with use of specific crimpers



Twin Insulated Wire Ferrules (Large Standard Pack)

| AWG    | mm <sup>2</sup> | L <sub>2</sub><br>Barrel Length<br>(mm) | Industry Standard<br>color<br>Cat. No. | DIN Standard<br>color<br>Cat. No. | Dimensions (mm) |                |                |                |                |      |     | Std.<br>Pack |
|--------|-----------------|-----------------------------------------|----------------------------------------|-----------------------------------|-----------------|----------------|----------------|----------------|----------------|------|-----|--------------|
|        |                 |                                         |                                        |                                   | L <sub>1</sub>  | L <sub>2</sub> | D <sub>1</sub> | S <sub>1</sub> | S <sub>2</sub> | A    | B   |              |
| 2 x 22 | 2 x 0.34        | 8                                       | turquoise ● FTI2208                    |                                   | 15              | 8              | 1.2            | 0.15           | 0.25           | 3.5  | 2   | 500          |
| 2 x 20 | 2 x 0.5         | 8                                       | orange ● FTI2008                       | white ○ FTD2008                   | 14              | 8              | 1.4            | 0.15           | 0.3            | 5    | 3   | 500          |
| 2 x 20 | 2 x 0.5         | 10                                      | orange ● FTI2010                       | white ○ FTD2010                   | 16              | 10             | 1.4            | 0.15           | 0.3            | 5    | 3   | 500          |
| 2 x 20 | 2 x 0.5         | 12                                      | orange ● FTI2012                       | white ○ FTD2012                   | 18              | 12             | 1.4            | 0.15           | 0.3            | 5    | 3   | 500          |
| 2 x 18 | 2 x 0.75        | 8                                       | white ○ FTI1808W                       | grey ● FTD1808GR                  | 14              | 8              | 1.7            | 0.15           | 0.3            | 5.5  | 3   | 500          |
| 2 x 18 | 2 x 0.75        | 10                                      | white ○ FTI1810                        | grey ● FTD1810                    | 16              | 10             | 1.7            | 0.15           | 0.3            | 5.5  | 3   | 500          |
| 2 x 18 | 2 x 0.75        | 12                                      | white ○ FTI1812W                       | grey ● FTD1812GR                  | 18              | 12             | 1.7            | 0.15           | 0.3            | 5.5  | 3   | 500          |
| 2 x 18 | 2 x 0.75        | 18                                      | white ○ FTI1818W                       | grey ● FTD1818GR                  | 24              | 18             | 1.7            | 0.15           | 0.3            | 5.5  | 3   | 500          |
| 2 x 18 | 2 x 1           | 8                                       | yellow ● FTI1808Y                      | red ● FTD1808R                    | 15              | 8              | 2              | 0.15           | 0.3            | 5.8  | 3.2 | 500          |
| 2 x 18 | 2 x 1           | 12                                      | yellow ● FTI1812Y                      | red ● FTD1812R                    | 19              | 12             | 2              | 0.15           | 0.3            | 5.8  | 3.2 | 500          |
| 2 x 18 | 2 x 1           | 14                                      | yellow ● FTI1814                       | red ● FTD1814                     | 21              | 14             | 2              | 0.15           | 0.3            | 5.8  | 3.2 | 500          |
| 2 x 18 | 2 x 1           | 18                                      | yellow ● FTI1818Y                      | red ● FTD1818R                    | 25              | 18             | 2              | 0.15           | 0.3            | 5.8  | 3.2 | 500          |
| 2 x 16 | 2 x 1.5         | 8                                       | red ● FTI1608                          | black ● FTD1608                   | 16              | 8              | 2.2            | 0.15           | 0.3            | 6.5  | 3.6 | 500          |
| 2 x 16 | 2 x 1.5         | 12                                      | red ● FTI1612                          | black ● FTD1612                   | 20              | 12             | 2.2            | 0.15           | 0.3            | 6.5  | 3.6 | 500          |
| 2 x 16 | 2 x 1.5         | 18                                      | red ● FTI1618                          | black ● FTD1618                   | 26              | 18             | 2.2            | 0.15           | 0.3            | 6.6  | 3.6 | 100          |
| 2 x 14 | 2 x 2.5         | 10                                      | blue ● FTD1410                         |                                   | 19              | 10             | 2.8            | 0.15           | 0.4            | 8    | 4.5 | 500          |
| 2 x 14 | 2 x 2.5         | 12                                      | blue ● FTD1412                         |                                   | 21              | 12             | 2.8            | 0.15           | 0.4            | 8    | 4.5 | 100          |
| 2 x 14 | 2 x 2.5         | 18                                      | blue ● FTD1418                         |                                   | 27              | 18             | 2.8            | 0.15           | 0.4            | 8    | 4.5 | 100          |
| 2 x 12 | 2 x 4           | 12                                      | grey ● FTD1212                         |                                   | 22              | 12             | 3.5            | 0.2            | 0.5            | 9    | 5.2 | 100          |
| 2 x 12 | 2 x 4           | 18                                      | grey ● FTD1218                         |                                   | 28              | 18             | 3.5            | 0.2            | 0.5            | 9    | 5.2 | 100          |
| 2 x 10 | 2 x 6           | 12                                      | black ● FTI1012                        | yellow ● FTD1012                  | 23              | 12             | 4.5            | 0.2            | 0.5            | 11.4 | 6.2 | 100          |
| 2 x 10 | 2 x 6           | 18                                      | black ● FTI1018                        | yellow ● FTD1018                  | 29              | 18             | 4.5            | 0.2            | 0.5            | 11.4 | 6.2 | 100          |
| 2 x 8  | 2 x 10          | 12                                      | ivory ● FTI0812                        | red ● FTD0812                     | 24              | 12             | 5.8            | 0.2            | 0.5            | 13.4 | 7.6 | 100          |
| 2 x 8  | 2 x 10          | 18                                      | ivory ● FTI0818                        | red ● FTD0818                     | 30              | 18             | 5.8            | 0.2            | 0.5            | 13.4 | 7.6 | 100          |
| 2 x 6  | 2 x 16          | 16                                      | olive ● FTI0616                        | blue ● FTD0616                    | 29              | 16             | 8.3            | 0.3            | 0.6            | 17.2 | 9.5 | 50           |
| 2 x 6  | 2 x 16          | 25                                      | olive ● FTI0625                        | blue ● FTD0625                    | 38              | 25             | 8.3            | 0.3            | 0.6            | 17.2 | 9.5 | 50           |

Twin Insulated Wire Ferrules (Small Standard Pack)

| AWG    | mm <sup>2</sup> | L <sub>2</sub><br>Barrel Length<br>(mm) | Industry Standard<br>color<br>Cat. No. | DIN Standard<br>color<br>Cat. No. | Dimensions (mm) |                |                |                |                |      |     | Std.<br>Pack |
|--------|-----------------|-----------------------------------------|----------------------------------------|-----------------------------------|-----------------|----------------|----------------|----------------|----------------|------|-----|--------------|
|        |                 |                                         |                                        |                                   | L <sub>1</sub>  | L <sub>2</sub> | D <sub>1</sub> | S <sub>1</sub> | S <sub>2</sub> | A    | B   |              |
| 2 x 22 | 2 x 0.34        | 8                                       | turquoise ● FTI2208M                   |                                   | 15              | 8              | 1.2            | 0.15           | 0.25           | 3.5  | 2   | 100          |
| 2 x 20 | 2 x 0.5         | 8                                       | orange ● FTI2008M                      | white ○ FTD2008M                  | 14              | 8              | 1.4            | 0.15           | 0.3            | 5    | 3   | 100          |
| 2 x 20 | 2 x 0.5         | 10                                      | orange ● FTI2010M                      | white ○ FTD2010M                  | 16              | 10             | 1.4            | 0.15           | 0.3            | 5    | 3   | 100          |
| 2 x 20 | 2 x 0.5         | 12                                      | orange ● FTI2012M                      | white ○ FTD2012M                  | 18              | 12             | 1.4            | 0.15           | 0.3            | 5    | 3   | 100          |
| 2 x 18 | 2 x 0.75        | 8                                       | white ○ FTI1808WM                      | grey ● FTD1808GRM                 | 14              | 8              | 1.7            | 0.15           | 0.3            | 5.5  | 3   | 100          |
| 2 x 18 | 2 x 0.75        | 10                                      | white ○ FTI1810M                       | grey ● FTD1810M                   | 16              | 10             | 1.7            | 0.15           | 0.3            | 5.5  | 3   | 100          |
| 2 x 18 | 2 x 0.75        | 12                                      | white ○ FTI1812WM                      | grey ● FTD1812GRM                 | 18              | 12             | 1.7            | 0.15           | 0.3            | 5.5  | 3   | 100          |
| 2 x 18 | 2 x 1           | 8                                       | yellow ● FTI1808YM                     | red ● FTD1808RM                   | 15              | 8              | 2              | 0.15           | 0.3            | 5.8  | 3.2 | 100          |
| 2 x 18 | 2 x 1           | 12                                      | yellow ● FTI1812YM                     | red ● FTD1812RM                   | 19              | 12             | 2              | 0.15           | 0.3            | 5.8  | 3.2 | 100          |
| 2 x 16 | 2 x 1.5         | 8                                       | red ● FTI1608M                         | black ● FTD1608M                  | 16              | 8              | 2.2            | 0.15           | 0.3            | 6.5  | 3.6 | 100          |
| 2 x 16 | 2 x 1.5         | 12                                      | red ● FTI1612M                         | black ● FTD1612M                  | 20              | 12             | 2.2            | 0.15           | 0.3            | 6.5  | 3.6 | 100          |
| 2 x 14 | 2 x 2.5         | 10                                      | blue ● FTD1410M                        |                                   | 19              | 10             | 2.8            | 0.15           | 0.4            | 8    | 4.5 | 50           |
| 2 x 14 | 2 x 2.5         | 12                                      | blue ● FTD1412M                        |                                   | 21              | 12             | 2.8            | 0.15           | 0.4            | 8    | 4.5 | 50           |
| 2 x 12 | 2 x 4           | 12                                      | grey ● FTD1212M                        |                                   | 22              | 12             | 3.5            | 0.2            | 0.5            | 9    | 5.2 | 20           |
| 2 x 10 | 2 x 6           | 12                                      | black ● FTI1012M                       | yellow ● FTD1012M                 | 23              | 12             | 4.5            | 0.2            | 0.5            | 11.4 | 6.2 | 20           |
| 2 x 8  | 2 x 10          | 12                                      | ivory ● FTI0812M                       | red ● FTD0812M                    | 24              | 12             | 5.8            | 0.2            | 0.5            | 13.4 | 7.6 | 20           |

### Crimpers

| AWG    | <br>Crimpit<br>F 4 | <br>Crimpit<br>F 6 gyra | <br>Crimpit<br>F 6 EN | <br>Crimpit<br>F 6 auto | <br>Crimpit<br>F 6 L | <br>Crimpit<br>F 16 / F 16 L | <br>Crimpit<br>F 25 L | <br>Crimpit<br>F 50 L |
|--------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| 2 x 22 |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 20 |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 20 |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 20 |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 18 |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 18 |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 18 |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 18 |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 18 |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 18 |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 16 |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 16 |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 16 |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 14 |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 14 |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 14 |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 12 |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 12 |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 10 |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 10 |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 8  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 8  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 6  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |
| 2 x 6  |                                                                                                     |                                                                                                          |                                                                                                        |                                                                                                          |                                                                                                        |                                                                                                                 |                                                                                                          |                                                                                                          |

| AWG    | F4 | F6 gyra | F6EN | F6 auto | F6L | F16/F16L | F25L | F50L |
|--------|----|---------|------|---------|-----|----------|------|------|
| 2 x 22 |    |         |      |         |     |          |      |      |
| 2 x 20 |    |         |      |         |     |          |      |      |
| 2 x 20 |    |         |      |         |     |          |      |      |
| 2 x 20 |    |         |      |         |     |          |      |      |
| 2 x 18 |    |         |      |         |     |          |      |      |
| 2 x 18 |    |         |      |         |     |          |      |      |
| 2 x 18 |    |         |      |         |     |          |      |      |
| 2 x 18 |    |         |      |         |     |          |      |      |
| 2 x 16 |    |         |      |         |     |          |      |      |
| 2 x 16 |    |         |      |         |     |          |      |      |
| 2 x 16 |    |         |      |         |     |          |      |      |
| 2 x 14 |    |         |      |         |     |          |      |      |
| 2 x 14 |    |         |      |         |     |          |      |      |
| 2 x 12 |    |         |      |         |     |          |      |      |
| 2 x 10 |    |         |      |         |     |          |      |      |
| 2 x 8  |    |         |      |         |     |          |      |      |

With the use of these crimpers the Ferrules are UL Recognized. 



**Now UL  
Recognized**  
with use of specific crimpers



**Insulated Wire Ferrules (on reel) for Handtools and Machines**

| AWG | mm <sup>2</sup> | Barrel Length (mm) | Industry Standard color | Cat. No.   | DIN Standard color | Cat. No.    | Std. Pack |
|-----|-----------------|--------------------|-------------------------|------------|--------------------|-------------|-----------|
| 22  | 0.34            | 8                  | turquoise               | FII2208RE  |                    |             | 5,000     |
| 20  | 0.5             | 8                  | orange                  | FII2008RE  | white              | FID2008RE   | 5,000     |
| 18  | 0.75            | 8                  | white                   | FII1808WRE | grey               | FID1808GRRE | 5,000     |
| 18  | 1               | 8                  | yellow                  | FII1808YRE | red                | FID1808RRE  | 5,000     |
| 16  | 1.5             | 8                  | red                     | FII1608RE  | black              | FID1608RE   | 5,000     |
| 14  | 2.5             | 8                  | blue                    | FID1408RE  |                    |             | 3,000     |

**Insulated Wire Ferrules (belt-strips) for handtools and machines**



| AWG | mm <sup>2</sup> | Barrel Length (mm) | Industry Standard color | Cat. No.  | DIN Standard color | Cat. No.   | Std. Pack | Crimpit F Multi |
|-----|-----------------|--------------------|-------------------------|-----------|--------------------|------------|-----------|-----------------|
| 20  | 0.5             | 8                  | orange                  | FII2008B  | white              | FID2008B   | 10 x 50   |                 |
| 18  | 0.75            | 8                  | white                   | FII1808WB | grey               | FID1808GRB | 10 x 50   |                 |
| 18  | 1               | 8                  | yellow                  | FII1808YB | red                | FID1808RB  | 10 x 50   |                 |
| 16  | 1.5             | 8                  | red                     | FII1608B  | black              | FID1608B   | 10 x 50   |                 |
| 14  | 2.5             | 8                  | blue                    | FID1408B  |                    |            | 10 x 50   |                 |

**Ferrule Crimping Machines and Multi-function Tool**



*For technical and ordering information regarding Ferrule Crimping Machines please contact Altech.*



With the use of these crimpers the Ferrules are UL Recognized.



## Crimpers



### Crimpit F 4

Crimping tool for ferrules (according to DIN 46228 part 1 and 4) with or without plastic collars. Only one crimping profile for the entire cross-section range.

**Ferrules:** 0,5 – 4 mm<sup>2</sup> (20 – 12 AWG)

**Twin Ferrules:** 2 x 0.5 – 2 x 2.5 mm<sup>2</sup> (2 x 20 – 2 x 14 AWG)

**Cat. No.: Crimpit F 4**

Weight 448 g



### Crimpit F 6 Auto

Crimping tool for ferrules (according to DIN 46228 part 1 and 4) with and without plastic collars. Feeding from front.

**Ferrules:** 0,5 – 6 mm<sup>2</sup> (20 – 10 AWG)

**Twin Ferrules:** 2 x 0.5 – 2 x 2.5 mm<sup>2</sup> (2 x 20 – 2 x 14 AWG)

**Cat. No.: Crimpit F 6 Auto**

Weight 426 g



### Crimpit F 6 Gyra

Crimping tool for ferrules (according to DIN 46228 part 1 and 4) with and without plastic collars. Rotatable crimp die for feeding from the front or the side.

**Ferrules:** 0,14 – 6 mm<sup>2</sup> (26 – 10 AWG)

**Twin Ferrules:** 2 x 0.5 – 2 x 4 mm<sup>2</sup> (2 x 20 – 2 x 12 AWG)

**Cat. No.: Crimpit F 6 Gyra**

Weight 428 g



### Crimpit F 6 EN

Crimping tool for ferrules (according to DIN 46228 part 1 and 4) with and without plastic collars. Crimp conforms to EN 60947-1. Five crimping profiles for the rated conductor cross-sections. Registration in accordance with VG 95211 (Military designation VG 95236 T 14 A 0001).

**Ferrules:** 0.25 – 6 mm<sup>2</sup> (24 – 10 AWG)

**Twin Ferrules:** 2 x 0.75 – 2 x 4 mm<sup>2</sup> (2 x 18 – 2 x 12 AWG)

**Cat. No.: Crimpit F 6 EN**

Weight 423 g

## Crimpers



### Crimpit F 6 L

Crimping tool for ferrules (conforming to DIN 46228 part 1 and 2) with and without insulating collar. Five crimping profiles depending on the wire cross-sections.

**Ferrules:** 0.5 – 6 mm<sup>2</sup> (20 – 10 AWG)

**Twin Ferrules:** 2 x 0.75 – 2 x 4 mm<sup>2</sup> (2 x 18 – 2 x 12 AWG)

**Cat. No.: Crimpit F 6 L**

Weight 335 g



### Crimpit F 16

Crimping tool for ferrules (according to DIN 46228 part 1 and 4) with and without plastic collars. Crimp conforms to EN 60947-1. Three crimping profiles for the rated conductor cross-sections. Registration in accordance with VG 95211 (Military designation VG 95236 T 14 A 0002).

**Ferrules:** 6 – 16 mm<sup>2</sup> (10 – 6 AWG)

**Cat. No.: Crimpit F 16**

Weight 418 g



### Crimpit F 16 L

Crimping tool for ferrules (according to DIN 46228 part 1 and 4) with and without plastic collars. Crimp conforms to EN 60947-1. Three crimping profiles for the rated conductor cross-sections.

**Ferrules:** 6 – 16 mm<sup>2</sup> (10 – 6 AWG)

**Cat. No.: Crimpit F 16 L**

Weight 380 g



### Crimpit F 25 L

Crimping tool for ferrules (according to DIN 46228 part 1 and 4) as well as for twin ferrules.

**Ferrules:** 6 – 25 mm<sup>2</sup> (10 – 4 AWG)

**Twin Ferrules:** 2 x 4 – 2 x 10 mm<sup>2</sup> (2 x 12 – 2 x 8 AWG)

**Cat. No.: Crimpit F 25 L**

Weight 540 g

## Crimpers



### Crimpit F 50 L

Crimping tool for ferrules (according to DIN 46228 part 1 and 4) as well as for twin ferrules.

**Ferrules:** 35 – 50 mm<sup>2</sup> (2 – 1 AWG)

**Twin Ferrules:** 2 x 16 mm<sup>2</sup> (2 x 6 AWG)

**Cat. No.:** Crimpit F 50 L

Weight 540 g



### Crimpit F Multi

Multi-function tool. Stripping and cutting of wires. Crimping tool for insulated belt-strip ferrules according to DIN 46228.

**Cross-section:** 0.5 – 2,5 mm<sup>2</sup> (20 – 14 AWG)

**Ferrules:** 0.5 – 2.5 mm<sup>2</sup> (20 – 14 AWG)

**Cat. No.:** Crimpit F Multi

Weight 260 g

## Ferrule Crimping Machines



*For technical and ordering information regarding Ferrule Crimping Machines please contact Altech.*

Crimper Selections

UL Crimper photos are supplied by Zoller & Fröhlich GmbH.

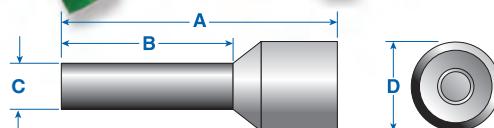
## Original Industry Standard Ferrules



### Tested According To:

CSA Std C22.2 No. 65-93  
CSA Std C22.2 No. 188-M1983  
ANSI/UL Std No. 486A  
ANSI/UL Std No. 486C

- Wire Connectors  
- Splicing Wire and Cable Connectors  
- Wire Connectors and Soldering Lugs for Use with Copper Conductors  
- Splicing Wire Connectors



Ferrules insure reliable electrical connections when terminating stranded flexible wire in terminal blocks, circuit breakers or other control devices. Insulated ferrules prevent conductor breakage due to bending, wire stress or vibration while facilitating wire insertion into the terminal clamp.

Altech's standard insulated ferrules are color coded by conductor size for convenient identification.

To ensure efficient ferrule crimping, always select the smallest ferrule diameter that fits the wire and use only professional crimping tools.

- Sleeve: polypropylene
- Tube: tin-plated copper

|  | AWG    | mm <sup>2</sup> | Color     | Cat. No. | Barrel Length (B) mm | Ferrule Dimensions mm |    |      |      | Std. Pack* |
|--|--------|-----------------|-----------|----------|----------------------|-----------------------|----|------|------|------------|
|  | 24     | 0.25            | Lt. Blue  | 2620.0   | 6                    | 10                    | 6  | 1.2  | 2.3  | 500/100    |
|  | 24     | 0.25            | Lt. Blue  | 2621.0   | 8                    | 12                    | 8  | 1.2  | 2.3  | 500/100    |
|  | 22     | 0.34            | Turquoise | 2622.0   | 6                    | 10                    | 6  | 1.2  | 2.5  | 500/100    |
|  | 22     | 0.34            | Turquoise | 2623.0   | 8                    | 12                    | 8  | 1.2  | 2.5  | 500/100    |
|  | 20     | 0.5             | Orange    | 2397.0   | 6                    | 12                    | 6  | 1.3  | 2.8  | 500/100    |
|  | 20     | 0.5             | Orange    | 2201.0   | 8                    | 14                    | 8  | 1.3  | 2.8  | 500/100    |
|  | 18     | 0.75            | White     | 2398.0   | 6                    | 12                    | 6  | 1.5  | 3.3  | 500/100    |
|  | 18     | 0.75            | White     | 2202.0   | 8                    | 14                    | 8  | 1.5  | 3.3  | 500/100    |
|  | 18     | 1               | Yellow    | 2399.0   | 6                    | 12                    | 6  | 1.7  | 3.5  | 500/100    |
|  | 18     | 1               | Yellow    | 2203.0   | 8                    | 14                    | 8  | 1.7  | 3.5  | 500/100    |
|  | 16     | 1.5             | Red       | 2204.0   | 8                    | 14                    | 8  | 2.0  | 4.0  | 500/100    |
|  | 16     | 1.5             | Red       | 2400.0   | 10                   | 16                    | 10 | 2.0  | 4.0  | 500/100    |
|  | 16     | 1.5             | Red       | 2205.0   | 18                   | 24                    | 18 | 2.0  | 4.0  | 500/100    |
|  | 14     | 2.5             | Blue      | 2206.0   | 8                    | 14                    | 8  | 2.5  | 4.7  | 500/100    |
|  | 14     | 2.5             | Blue      | 2401.0   | 12                   | 18                    | 12 | 2.5  | 4.7  | 500/100    |
|  | 14     | 2.5             | Blue      | 2207.0   | 18                   | 24                    | 18 | 2.5  | 4.7  | 500/100    |
|  | 12     | 4               | Gray      | 2208.0   | 10                   | 17                    | 10 | 3.2  | 5.4  | 500/100    |
|  | 12     | 4               | Gray      | 2402.0   | 12                   | 20                    | 12 | 3.2  | 5.4  | 500/100    |
|  | 12     | 4               | Gray      | 2209.0   | 18                   | 26                    | 18 | 3.2  | 5.4  | 100        |
|  | 10     | 6               | Black     | 2210.0   | 12                   | 20                    | 12 | 3.9  | 6.9  | 100        |
|  | 10     | 6               | Black     | 2211.0   | 18                   | 26                    | 18 | 3.9  | 6.9  | 100        |
|  | 8      | 10              | Ivory     | 2212.0   | 12                   | 22                    | 12 | 4.9  | 8.4  | 100        |
|  | 8      | 10              | Ivory     | 2213.0   | 18                   | 28                    | 18 | 4.9  | 8.4  | 100        |
|  | 6      | 16              | Green     | 2214.0   | 12                   | 24                    | 12 | 6.2  | 9.6  | 100        |
|  | 6      | 16              | Green     | 2215.0   | 18                   | 28                    | 18 | 6.2  | 9.6  | 100        |
|  | 4      | 25              | Brown     | 2267.0   | 18                   | 30                    | 18 | 7.7  | 12.0 | 50         |
|  | 4      | 25              | Brown     | 2272.0   | 22                   | 36                    | 22 | 7.7  | 12.0 | 50         |
|  | 2      | 35              | Beige     | 2276.0   | 18                   | 30                    | 18 | 8.7  | 13.5 | 50         |
|  | 2      | 35              | Beige     | 2390.0   | 25                   | 39                    | 25 | 8.7  | 13.5 | 50         |
|  | 1      | 50              | Olive     | 2500.0   | 20                   | 36                    | 20 | 10.9 | 16.0 | 50         |
|  | 2/0    | 70              | Yellow    | 2786.0   | 20                   | 37                    | 20 | 13.4 | 17.0 | 25         |
|  | 3/0    | 95              | Red       | 2787.0   | 25                   | 44                    | 25 | 15.4 | 19.0 | 5          |
|  | 4/0    | 120             | Blue      | 2788.0   | 27                   | 48                    | 27 | 17.6 | 22.4 | 25         |
|  | 250MCM | 150             | Yellow    | 2789.0   | 32                   | 58                    | 32 | 20.5 | 25.0 | 25         |

\* Different standard packs are available as shown. To order the desired standard pack, please use the quantity required as a suffix to the cat. no.  
Example for 100 standard pack: Cat. No. 2620.0/100

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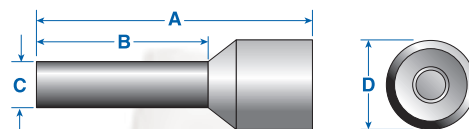
## Original DIN Standard Ferrules



### Tested According To:

CSA Std C22.2 No. 65-93  
CSA Std C22.2 No. 188-M1983  
ANSI/UL Std No. 486A  
ANSI/UL Std No. 486C

- Wire Connectors  
- Splicing Wire and Cable Connectors  
- Wire Connectors and Soldering Lugs for Use with Copper Conductors  
- Splicing Wire Connectors



Ferrules insure reliable electrical connections when terminating stranded flexible wire in terminal blocks, circuit breakers or other control devices.

Insulated ferrules prevent conductor breakage due to bending, wire stress or vibration while facilitating wire insertion into the terminal clamp.

Altech's DIN standard ferrules are in compliance with DIN requirements, making them ideal for export applications. They also have a specified color code convention that differs from the color code used for Altech's industry standard ferrules.

To ensure efficient ferrule crimping, always select the smallest ferrule diameter that fits the wire and use only professional crimping tools.

- Sleeve: polypropylene
- Tube: tin plated copper

|                                                                                     | AWG | mm <sup>2</sup> | Cat. Color | No.    | Barrel Length (B) mm | Ferrule Dimensions mm |    |      |      | Std. Pack* |
|-------------------------------------------------------------------------------------|-----|-----------------|------------|--------|----------------------|-----------------------|----|------|------|------------|
|                                                                                     |     |                 |            |        |                      | A                     | B  | C    | D    |            |
|    | 20  | 0.50            | White      | 2863.0 | 6                    | 12                    | 6  | 1.3  | 2.8  | 500/100    |
|    | 20  | 0.50            | White      | 2864.0 | 8                    | 14                    | 8  | 1.3  | 2.8  | 500/100    |
|    | 20  | 0.50            | White      | 2865.0 | 10                   | 16                    | 10 | 1.3  | 2.8  | 500/100    |
|    | 18  | 0.75            | Gray       | 2866.0 | 6                    | 12                    | 6  | 1.5  | 3.3  | 500/100    |
|    | 18  | 0.75            | Gray       | 2867.0 | 8                    | 14                    | 8  | 1.5  | 3.3  | 500/100    |
|    | 18  | 0.75            | Gray       | 2868.0 | 10                   | 16                    | 10 | 1.5  | 3.3  | 500/100    |
|    | 18  | 0.75            | Gray       | 2869.0 | 12                   | 18                    | 12 | 1.5  | 3.3  | 500/100    |
|   | 18  | 1               | Red        | 2870.0 | 6                    | 12                    | 6  | 1.7  | 3.5  | 500/100    |
|  | 18  | 1               | Red        | 2871.0 | 8                    | 14                    | 8  | 1.7  | 3.5  | 500/100    |
|  | 18  | 1               | Red        | 2872.0 | 10                   | 16                    | 10 | 1.7  | 3.5  | 500/100    |
|  | 18  | 1               | Red        | 2840.0 | 12                   | 18                    | 12 | 1.7  | 3.5  | 500/100    |
|  | 16  | 1.5             | Black      | 2841.0 | 8                    | 14                    | 8  | 2    | 4    | 500/100    |
|  | 16  | 1.5             | Black      | 2842.0 | 10                   | 16                    | 10 | 2    | 4    | 500/100    |
|  | 16  | 1.5             | Black      | 2843.0 | 12                   | 18                    | 12 | 2    | 4    | 500/100    |
|  | 16  | 1.5             | Black      | 2844.0 | 18                   | 24                    | 18 | 2    | 4    | 500/100    |
|  | 14  | 2.5             | Blue       | 2845.0 | 8                    | 14                    | 8  | 2.5  | 4.7  | 500/100    |
|  | 14  | 2.5             | Blue       | 2846.0 | 12                   | 18                    | 12 | 2.5  | 4.7  | 500/100    |
|  | 14  | 2.5             | Blue       | 2847.0 | 18                   | 24                    | 18 | 2.5  | 4.7  | 500/100    |
|  | 12  | 4               | Gray       | 2848.0 | 10                   | 17                    | 10 | 3.2  | 5.4  | 500/100    |
|  | 12  | 4               | Gray       | 2849.0 | 12                   | 20                    | 12 | 3.2  | 5.4  | 500/100    |
|  | 12  | 4               | Gray       | 2850.0 | 18                   | 26                    | 18 | 3.2  | 5.4  | 100        |
|  | 10  | 6               | Yellow     | 2851.0 | 12                   | 20                    | 12 | 3.9  | 6.9  | 100        |
|  | 10  | 6               | Yellow     | 2852.0 | 18                   | 26                    | 18 | 3.9  | 6.9  | 100        |
|  | 8   | 10              | Red        | 2853.0 | 12                   | 22                    | 12 | 4.9  | 8.4  | 100        |
|  | 8   | 10              | Red        | 2854.0 | 18                   | 28                    | 18 | 4.9  | 8.4  | 100        |
|  | 6   | 16              | Blue       | 2855.0 | 12                   | 24                    | 12 | 6.2  | 9.6  | 100        |
|  | 6   | 16              | Blue       | 2856.0 | 18                   | 28                    | 18 | 6.2  | 9.6  | 100        |
|  | 4   | 25              | Yellow     | 2857.0 | 18                   | 30                    | 18 | 7.7  | 12   | 50         |
|  | 4   | 25              | Yellow     | 2858.0 | 22                   | 36                    | 22 | 7.7  | 12   | 50         |
|  | 2   | 35              | Red        | 2859.0 | 18                   | 30                    | 18 | 8.7  | 13.5 | 50         |
|  | 2   | 35              | Red        | 2860.0 | 25                   | 39                    | 25 | 8.7  | 13.5 | 50         |
|  | 1   | 50              | Blue       | 2861.0 | 20                   | 36                    | 20 | 10.9 | 16   | 50         |

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\* Different standard packs are available as shown. To order the desired standard pack, please use the quantity required as a suffix to the cat. no.  
Example for 100 standard pack: Cat. No. 2863.0/100

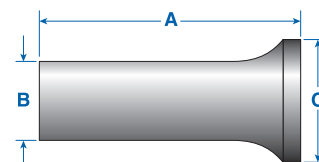
## Original Uninsulated Ferrules



### Tested According To:

CSA Std C22.2 No. 65-93  
CSA Std C22.2 No. 188-M1983  
ANSI/UL Std No. 486A  
ANSI/UL Std No. 486C

- Wire Connectors
- Splicing Wire and Cable Connectors
- Wire Connectors and Soldering Lugs for Use with Copper Conductors
- Splicing Wire Connectors



Ferrules insure reliable electrical connections when terminating stranded flexible wire in terminal blocks, circuit breakers or other control devices.

Uninsulated ferrules prevent wire strands from fraying and breaking and are extremely cost effective. Their shorter lengths and uninsulated bodies offer advantages when making terminations in printed circuit board terminal blocks and in other terminal blocks with smaller clamps or narrow widths.

To ensure efficient ferrule crimping, always select the smallest ferrule diameter that fits the wire and use only professional crimping tools. (Please refer to the ordering pages and the Crimper Selector Guide on page 18.)

• Tube: tin plated copper

|  | AWG    | mm <sup>2</sup> | Cat. No. | Barrel Length (A)<br>mm | Ferrule Dimensions mm |        |      | Std. Pack* |
|--|--------|-----------------|----------|-------------------------|-----------------------|--------|------|------------|
|  |        |                 |          |                         | A                     | B (ID) | C    |            |
|  | 20     | 0.5             | 2216.0   | 6                       | 6                     | 1.3    | 2.1  | 1000/100   |
|  | 18     | 0.75            | 2217.0   | 6                       | 6                     | 1.5    | 2.3  | 1000/100   |
|  | 18     | 0.75            | 2218.0   | 10                      | 10                    | 1.5    | 2.3  | 1000/100   |
|  | 18     | 1               | 2219.0   | 6                       | 6                     | 1.7    | 2.5  | 1000/100   |
|  | 18     | 1               | 2220.0   | 10                      | 10                    | 1.7    | 2.5  | 1000/100   |
|  | 16     | 1.5             | 2221.0   | 7                       | 7                     | 2.3    | 2.8  | 1000/100   |
|  | 16     | 1.5             | 2222.0   | 10                      | 10                    | 2.3    | 2.8  | 1000/100   |
|  | 14     | 2.5             | 2223.0   | 7                       | 7                     | 2.5    | 3.4  | 1000/100   |
|  | 14     | 2.5             | 2224.0   | 12                      | 12                    | 2.5    | 3.4  | 1000/100   |
|  | 12     | 4               | 2225.0   | 9                       | 9                     | 3.2    | 4.0  | 1000/100   |
|  | 12     | 4               | 2226.0   | 12                      | 12                    | 3.2    | 4.0  | 1000/100   |
|  | 10     | 6               | 2227.0   | 12                      | 12                    | 3.9    | 4.7  | 500/100    |
|  | 10     | 6               | 2388.0   | 15                      | 15                    | 3.9    | 4.7  | 500/100    |
|  | 8      | 10              | 2228.0   | 12                      | 12                    | 4.9    | 5.8  | 500/100    |
|  | 8      | 10              | 2389.0   | 15                      | 15                    | 4.9    | 5.8  | 500/100    |
|  | 8      | 10              | 2229.0   | 18                      | 18                    | 4.9    | 5.8  | 500/100    |
|  | 6      | 16              | 2391.0   | 12                      | 12                    | 6.2    | 7.5  | 500/100    |
|  | 6      | 16              | 2392.0   | 15                      | 15                    | 6.2    | 7.5  | 500/100    |
|  | 6      | 16              | 2393.0   | 18                      | 18                    | 6.2    | 7.5  | 100        |
|  | 4      | 25              | 2394.0   | 15                      | 15                    | 7.7    | 9.5  | 500/100    |
|  | 4      | 25              | 2395.0   | 18                      | 18                    | 7.7    | 9.5  | 100        |
|  | 2      | 35              | 2396.0   | 18                      | 18                    | 8.7    | 11   | 100        |
|  | 1      | 50              | 2816.0   | 32                      | 32                    | 10.9   | 13   | 100        |
|  | 2/0    | 70              | 2790.0   | 25                      | 25                    | 13.3   | 15   | 100        |
|  | 3/0    | 95              | 2791.0   | 32                      | 32                    | 15.3   | 17   | 50         |
|  | 4/0    | 120             | 2792.0   | 32                      | 32                    | 17.5   | 19   | 25         |
|  | 250MCM | 150             | 2793.0   | 32                      | 32                    | 19.5   | 21   | 25         |
|  | 350MCM | 185             | 2815.0   | 32                      | 32                    | 21.2   | 23.5 | 25         |
|  | 500MCM | 240             | 2815.5   | 40                      | 40                    | 23.0   | 25   | 25         |

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\* Different standard packs are available as shown. To order the desired standard pack, please use the quantity required as a suffix to the cat. no.  
Example for 100 standard pack: Cat. No. 2216.0/100

## Original Dual Wire Ferrules

### Dual Wire Insulated

Dual Wire Ferrules have larger diameters and special shaped sleeves that accept two conductors of the same or different size. They provide an efficient connection of multiple wires in the same terminal clamp or simplify wire jumpering between terminal clamps. They are color coded with the same convention as the insulated DIN standard ferrules.

To ensure efficient ferrule crimping always select the smallest ferrule diameter that fits the wire and use only professional crimping tools.

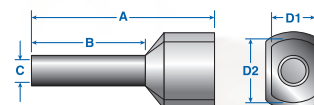
- Sleeve: polypropylene
- Tube: tin plated copper



#### Tested According To:

CSA Std C22.2 No. 65-93  
CSA Std C22.2 No. 188-M1983  
ANSI/UL Std No. 486A  
ANSI/UL Std No. 486C

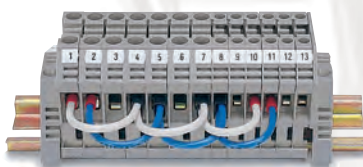
- Wire Connectors
- Splicing Wire and Cable Connectors
- Wire Connectors and Soldering Lugs for Use with Copper Conductors
- Splicing Wire Connectors



|  | Wires<br>x AWG | mm <sup>2</sup> | Color  | Cat.<br>No. | Barrel Length (B)<br>mm | A    | B   | C   | D1  | D2   | Std.<br>Pack* |
|--|----------------|-----------------|--------|-------------|-------------------------|------|-----|-----|-----|------|---------------|
|  | 2x20           | 2x0.50          | White  | 2794.0      | 11                      | 14.6 | 8.2 | 1.7 | 3   | 5    | 500/100       |
|  | 2x18           | 2x0.75          | Gray   | 2775.0      | 11                      | 14.6 | 8.2 | 2.0 | 3   | 5.5  | 500/100       |
|  | 2x18           | 2x0.75          | Gray   | 2795.0      | 13                      | 16.4 | 10  | 2.0 | 3   | 5.5  | 500/100       |
|  | 2x18           | 2x1             | Red    | 2776.0      | 11                      | 15.4 | 8.2 | 2.4 | 3.2 | 5.8  | 500/100       |
|  | 2x18           | 2x1             | Red    | 2796.0      | 21                      | 25.2 | 18  | 2.4 | 3.2 | 5.8  | 500/100       |
|  | 2x16           | 2x1.5           | Black  | 2777.0      | 12                      | 15.8 | 8.2 | 2.6 | 3.6 | 6.5  | 500/100       |
|  | 2x16           | 2x1.5           | Black  | 2797.0      | 16                      | 19.6 | 12  | 2.6 | 3.6 | 6.5  | 500/100       |
|  | 2x14           | 2x2.5           | Blue   | 2778.0      | 14                      | 18.5 | 10  | 3.3 | 4.5 | 8    | 500/100       |
|  | 2x14           | 2x2.5           | Blue   | 2798.0      | 17                      | 20.5 | 12  | 3.3 | 4.5 | 8    | 500/100       |
|  | 2x12           | 2x4             | Gray   | 2799.0      | 16                      | 22   | 12  | 3.9 | 5.2 | 9    | 100           |
|  | 2x10           | 2x6             | Yellow | 2800.0      | 18                      | 23   | 12  | 5   | 6.2 | 11.4 | 100           |
|  | 2x8            | 2x10            | Red    | 2801.0      | 18                      | 24   | 12  | 6.2 | 7.6 | 13.4 | 100           |
|  | 2X6            | 2x16            | Blue   | 2802.0      | 20                      | 29   | 16  | 8.9 | 9.5 | 17.2 | 100/50        |

### INSULATED FERRULES Assortment Box

Handy Assortment Boxes for convenient dispensing and storage of Industry and DIN Standard Insulated Ferrules. Types AB1-S and AB1-D are equipped with five different ferrule sizes. Types AB2-S and AB2-D are equipped with four different ferrule sizes. Contents of each box is listed.



\* Different standard packs are available for many ferrules. To order the desired standard pack, please use the quantity required as a suffix to the Cat. No.

Example: Cat. No. 2794.0/100 for a standard pack of 100

| Ferrule Qty.                   | AWG | mm <sup>2</sup> | Ferrule Cat. No. | Ferrule Color | Type         | Cat. No.      | Std. Pack |
|--------------------------------|-----|-----------------|------------------|---------------|--------------|---------------|-----------|
| <b>AB1-S Industry Standard</b> |     |                 |                  |               | <b>AB1-S</b> | <b>2884.9</b> | <b>1</b>  |
| 50                             | 20  | 0.5             | 2201.0           | Orange        |              |               |           |
| 100                            | 20  | 0.75            | 2202.0           | White         |              |               |           |
| 100                            | 18  | 1               | 2399.0           | Yellow        |              |               |           |
| 100                            | 16  | 1.5             | 2204.0           | Red           |              |               |           |
| 50                             | 14  | 2.5             | 2206.0           | Blue          |              |               |           |
| <b>AB2-S Industry Standard</b> |     |                 |                  |               | <b>AB2-S</b> | <b>2885.9</b> | <b>1</b>  |
| 50                             | 12  | 4               | 2208.0           | Gray          |              |               |           |
| 20                             | 10  | 6               | 2210.0           | Black         |              |               |           |
| 20                             | 8   | 10              | 2212.0           | Ivory         |              |               |           |
| 10                             | 6   | 16              | 2214.0           | Green         |              |               |           |
| <b>AB1-D DIN Standard</b>      |     |                 |                  |               | <b>AB1-D</b> | <b>2884.0</b> | <b>1</b>  |
| 50                             | 20  | 0.5             | 2864.0           | White         |              |               |           |
| 100                            | 20  | 0.75            | 2867.0           | Gray          |              |               |           |
| 100                            | 18  | 1               | 2871.0           | Red           |              |               |           |
| 100                            | 16  | 1.5             | 2841.0           | Black         |              |               |           |
| 50                             | 14  | 2.5             | 2845.0           | Blue          |              |               |           |
| <b>AB2-D DIN Standard</b>      |     |                 |                  |               | <b>AB2-D</b> | <b>2885.0</b> | <b>1</b>  |
| 50                             | 12  | 4               | 2848.0           | Gray          |              |               |           |
| 20                             | 10  | 6               | 2851.0           | Yellow        |              |               |           |
| 20                             | 8   | 10              | 2853.0           | Red           |              |               |           |
| 10                             | 6   | 16              | 2855.0           | Blue          |              |               |           |



AB1-S



AB2-S

**CRIMPER  
SELECTOR  
GUIDE**  
page 18

## Original Ferrule and Wire Size by Crimper Type

Use this Selector Guide to determine ferrule and wire sizes which can be crimped. Refer to following pages for selection and ordering information of crimpers.

1. Determine the wire size(s) to be used.
2. To insure efficient ferrule crimping, always select the smallest ferrule diameter that fits the wire.
3. Based on the ferrule size, choose the crimper type appropriate for use.
4. Select the crimper style best suited for your application.

### CRIMPER STYLES

| Wire Size<br>AWG | Ferrule Size<br>mm <sup>2</sup> | UNIVERSAL FERRULE<br>CRIMPER |          |          |          |          | PNEUMATIC FERRULE<br>CRIMPER |          |        |          | VISE MOUNT<br>FERRULE<br>CRIMPER |        |
|------------------|---------------------------------|------------------------------|----------|----------|----------|----------|------------------------------|----------|--------|----------|----------------------------------|--------|
|                  |                                 | Crimper Type                 | E110.000 | E110.005 | E110.010 | E110.015 | E110.020                     | 22.014 * | 22.015 | 22.016 * |                                  | 22.017 |
| 26               | 0.14                            |                              |          |          |          |          |                              |          |        |          |                                  |        |
| 24               | 0.25                            |                              |          |          |          |          |                              |          |        |          |                                  |        |
| 22               | 0.34                            |                              |          |          |          |          |                              |          |        |          |                                  |        |
| 20               | 0.50                            |                              |          |          |          |          |                              |          |        |          |                                  |        |
| 20               | 0.75                            |                              |          |          |          |          |                              |          |        |          |                                  |        |
| 18               | 1                               |                              |          |          |          |          |                              |          |        |          |                                  |        |
| 16               | 1                               |                              |          |          |          |          |                              |          |        |          |                                  |        |
| 14               | 2.5                             |                              |          |          |          |          |                              |          |        |          |                                  |        |
| 12               | 4                               |                              |          |          |          |          |                              |          |        |          |                                  |        |
| 10               | 6                               |                              |          |          |          |          |                              |          |        |          |                                  |        |
| 8                | 10                              |                              |          |          |          |          |                              |          |        |          |                                  |        |
| 6                | 16                              |                              |          |          |          |          |                              |          |        |          |                                  |        |
| 4                | 25                              |                              |          |          |          |          |                              |          |        |          |                                  |        |
| 2                | 35                              |                              |          |          |          |          |                              |          |        |          |                                  |        |
| 1                | 50                              |                              |          |          |          |          |                              |          |        |          |                                  |        |
| 2/0              | 70                              |                              |          |          |          |          |                              |          |        |          |                                  |        |
| 3/0              | 95                              |                              |          |          |          |          |                              |          |        |          |                                  |        |
| 4/0              | 120                             |                              |          |          |          |          |                              |          |        |          |                                  |        |
| 250MCM           | 150                             |                              |          |          |          |          |                              |          |        |          |                                  |        |

### Dual Wire Ferrules

E110.000 crimper covers 2x20 to 2x12 AWG dual wire ferrules

E110.010 crimper covers 2x10 to 2x8 AWG dual wire ferrules

E110.015 crimper covers 2x6 AWG dual wire ferrules

#### Key:

■ = Cavity Range

\* Insulated ferrule/wire size range is shown, uninsulated ferrule range is 16-14 AWG (1.5 - 2.5mm<sup>2</sup>).

## Universal Ferrule Crimpers for Original Ferrules

### Front Conductor Entry

One die crimps a wide range of insulated and uninsulated ferrule sizes. Three Universal Ferrule Crimpers are offered to crimp different ferrule and wire size ranges up to 16mm<sup>2</sup> (6 AWG).

- Positive ratcheting with spring return
- Trapezoidal crimp geometry
- Comfort grip plastic handle
- Hardened steel frame, matte black

#### Universal Ferrule Crimper



| Part No. | Wire/<br>AWG | Ferrule<br>mm <sup>2</sup> | Std.<br>Pack |
|----------|--------------|----------------------------|--------------|
|----------|--------------|----------------------------|--------------|

|                 |         |          |   |
|-----------------|---------|----------|---|
| <b>E110.000</b> | 26 - 10 | 0.14 - 6 | 1 |
|-----------------|---------|----------|---|

Replacement Spring Set:

|                  |                   |
|------------------|-------------------|
| <b>185140008</b> | Handle Spring Set |
| <b>318001002</b> | Ratchet Spring    |

#### Universal Ferrule Crimper



| Part No. | Wire/<br>AWG | Ferrule<br>mm <sup>2</sup> | Std.<br>Pack |
|----------|--------------|----------------------------|--------------|
|----------|--------------|----------------------------|--------------|

|                 |        |          |   |
|-----------------|--------|----------|---|
| <b>E110.005</b> | 20 - 8 | 0.5 - 10 | 1 |
|-----------------|--------|----------|---|

Replacement Spring Set:

|                  |                   |
|------------------|-------------------|
| <b>185140008</b> | Handle Spring Set |
| <b>318001002</b> | Ratchet Spring    |

#### Universal Ferrule Crimper



| Part No. | Wire/<br>AWG | Ferrule<br>mm <sup>2</sup> | Std.<br>Pack |
|----------|--------------|----------------------------|--------------|
|----------|--------------|----------------------------|--------------|

|                 |       |         |   |
|-----------------|-------|---------|---|
| <b>E110.010</b> | 8 - 6 | 10 - 16 | 1 |
|-----------------|-------|---------|---|

Replacement Spring Set:

|                  |                   |
|------------------|-------------------|
| <b>185140008</b> | Handle Spring Set |
| <b>318001002</b> | Ratchet Spring    |

## Ferrule Crimper

### Side Conductor Entry

Individual crimp cavities conform to industry standard insulated and uninsulated ferrules from 25-50mm<sup>2</sup> (4-1 AWG).

- Positive ratcheting with spring return
- Emergency release
- Trapezoidal crimp geometry
- Comfort grip plastic handle
- Hardened steel frame, matte black

#### Ferrule Crimper



| Part No. | Wire/<br>AWG | Ferrule<br>mm <sup>2</sup> | Std.<br>Pack |
|----------|--------------|----------------------------|--------------|
|----------|--------------|----------------------------|--------------|

|                 |       |         |   |
|-----------------|-------|---------|---|
| <b>E110.015</b> | 4 - 2 | 25 - 35 | 1 |
|-----------------|-------|---------|---|

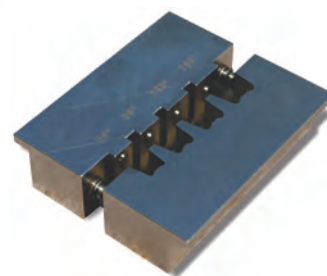
#### Ferrule Crimper



| Part No. | Wire/<br>AWG | Ferrule<br>mm <sup>2</sup> | Std.<br>Pack |
|----------|--------------|----------------------------|--------------|
|----------|--------------|----------------------------|--------------|

|                 |   |    |   |
|-----------------|---|----|---|
| <b>E110.020</b> | 1 | 50 | 1 |
|-----------------|---|----|---|

#### Vise Mount Ferrule Crimper



| Part No. | Wire/<br>AWG | Ferrule<br>mm <sup>2</sup> | Std.<br>Pack |
|----------|--------------|----------------------------|--------------|
|----------|--------------|----------------------------|--------------|

|               |                |          |   |
|---------------|----------------|----------|---|
| <b>22.030</b> | 2/0-250<br>MCM | 70 - 150 | 1 |
|---------------|----------------|----------|---|

## Pneumatic Crimping Tool for Original Ferrules

Altech's pneumatic crimping tools speed the crimping process of insulated or uninsulated ferrules for a wide range of wire sizes up to 8 AWG.

Altech pneumatic crimpers are simple and easy to use. Just install the ferrule over the end of the stripped wire and insert it into either the front or side tool opening. Then touch the actuating lever or push the foot switch pedal to initiate the crimp cycle. Once the head closes it will automatically reopen after crimping. The resulting crimp features a compact trapezoidal cross section which is mechanically very strong and provides a large surface to insure a highly efficient electrical contact.

Crimp ferrules efficiently and economically. A unique dual crimping head provides convenient front or side wire entry, allowing crimping from multiple positions. This features makes crimping in tight places simple.

Choose either lever actuated, hand held units or hands-free foot switch operated table top models, in two basic tool sizes. Hand held models feature a flexible coil air-hose with 1/4" NPT interchange connector for quick hook-up with a standard push-to-connect coupler.

The table top units also include a flexible coil air hose to the foot switch and a 1/4" NPT interchange located on the foot switch for one hand push-to-connect supply hook-up. They feature a sturdy metal base with integral table clamp and dual storage trays for quick access to the ferrule supply. The air release port on the foot switch has been quieted with a sintered bronze air silencer. The foot switch has a metal frame and a tough fiberglass shroud. Its spring return pedal provides for short actuating cycles.

Optional items for the hand held crimper include a counterbalance for maximum control and a magnetic holder for storage.



- Operates on 60 - 90 psi air supply
- Crimp insulated and uninsulated ferrules
- Trapezoidal crimp geometry
- Flexible coil air hose with 1/4" NPT interchange
- Metal tool body and base
- Hardened steel crimp head

| Tool                                                                                                                | Wire/ Ferrule Size<br>AWG | mm <sup>2</sup> | Cat. No.      | Tool Wt.<br>g (lbs.) | Std.<br>Pack |
|---------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------|---------------|----------------------|--------------|
| <b>Hand Held Crimper with Actuating Lever</b><br>Crimp Insulated Ferrules<br>and Uninsulated Ferrules               | 24-14                     | 0.25-2.5        | <b>22.014</b> | 430 (.95)            | 1            |
| <b>Hand Held Crimper with Actuating Lever</b><br>Crimp Insulated Ferrules<br>and Uninsulated Ferrules               | 12-8                      | 4-10            | <b>22.015</b> | 430 (.95)            | 1            |
| <b>Table Top Crimper with Foot Switch and Storage Trays</b><br>Crimp Insulated Ferrules<br>and Uninsulated Ferrules | 24-14                     | 0.25-2.5        | <b>22.016</b> | 1000 (2.20)          | 1            |
| <b>Table Top Crimper with Foot Switch and Storage Trays</b><br>Crimp Insulated Ferrules<br>and Uninsulated Ferrules | 12-8                      | 4-10            | <b>22.017</b> | 1000 (2.20)          | 1            |
| <b>Magnetic Mounting Holder</b><br><i>for hand held pneumatic crimpers</i>                                          |                           |                 | <b>22.018</b> | ---                  | 1            |
| <b>Counterbalance</b><br><i>for hand held pneumatic crimpers</i>                                                    |                           |                 | <b>22.019</b> | ---                  | 1            |

| Part No.  | Pg. | Part No.  | Pg. | Part No.    | Pg. | Part No.   | Pg. | Part No.     | Pg. |
|-----------|-----|-----------|-----|-------------|-----|------------|-----|--------------|-----|
| 185140008 | 19  | 2798.0    | 17  | FID0812M    | 6   | FII1608    | 4   | FTD1608M     | 8   |
| 2201.0    | 14  | 2799.0    | 17  | FID0818     | 4   | FII1608B   | 10  | FTD1808GRM   | 8   |
| 2202.0    | 14  | 2800.0    | 17  | FID1012     | 4   | FII1608M   | 6   | FTD1808R     | 8   |
| 2203.0    | 14  | 2801.0    | 17  | FID1012M    | 6   | FII1608RE  | 10  | FTD1808RM    | 8   |
| 2204.0    | 14  | 2802.0    | 17  | FID1018     | 4   | FII1610    | 4   | FTD1810      | 8   |
| 2205.0    | 14  | 2815.0    | 16  | FID1408B    | 10  | FII1610M   | 6   | FTD1810M     | 8   |
| 2206.0    | 14  | 2815.5    | 16  | FID1408RE   | 10  | FII1612    | 4   | FTD1812R     | 8   |
| 2207.0    | 14  | 2816.0    | 16  | FID1606     | 4   | FII1612M   | 6   | FTD1812RM    | 8   |
| 2208.0    | 14  | 2840.0    | 15  | FID1606M    | 6   | FII1618    | 4   | FTD1814      | 8   |
| 2209.0    | 14  | 2841.0    | 15  | FID1608     | 4   | FII1806W   | 4   | FTD1812GR    | 8   |
| 2210.0    | 14  | 2842.0    | 15  | FID1608B    | 10  | FII1806WM  | 6   | FTD1812GRM   | 8   |
| 2211.0    | 14  | 2843.0    | 15  | FID1608M    | 6   | FII1806Y   | 4   | FTD1818GR    | 8   |
| 2212.0    | 14  | 2844.0    | 15  | FID1608RE   | 10  | FII1806YM  | 6   | FTD1818R     | 8   |
| 2213.0    | 14  | 2845.0    | 15  | FID1610     | 4   | FII1808W   | 4   | FTD2008      | 8   |
| 2214.0    | 14  | 2846.0    | 15  | FID1610M    | 6   | FII1808WB  | 10  | FTD2008M     | 8   |
| 2215.0    | 14  | 2847.0    | 15  | FID1612     | 4   | FII1808WM  | 6   | FTD2010      | 8   |
| 2216.0    | 16  | 2848.0    | 15  | FID1612M    | 6   | FII1808WRE | 10  | FTD2010M     | 8   |
| 2217.0    | 16  | 2849.0    | 15  | FID1618     | 4   | FII1808Y   | 4   | FTD2012      | 8   |
| 2218.0    | 16  | 2850.0    | 15  | FID1806GR   | 4   | FII1808YB  | 10  | FTD2012M     | 8   |
| 2219.0    | 16  | 2851.0    | 15  | FID1806GRM  | 6   | FII1808YM  | 6   | FTI0616      | 8   |
| 2220.0    | 16  | 2852.0    | 15  | FID1806R    | 4   | FII1808YRE | 10  | FTI0625      | 8   |
| 2221.0    | 16  | 2853.0    | 15  | FID1806RM   | 6   | FII1810W   | 4   | FTI0812      | 8   |
| 2222.0    | 16  | 2854.0    | 15  | FID1808GR   | 4   | FII1810WM  | 6   | FTI0812M     | 8   |
| 2223.0    | 16  | 2855.0    | 15  | FID1808GRB  | 10  | FII1810Y   | 4   | FTI0818      | 8   |
| 2224.0    | 16  | 2856.0    | 15  | FID1808GRM  | 6   | FII1810YM  | 6   | FTI1012      | 8   |
| 2225.0    | 16  | 2857.0    | 15  | FID1808GRRE | 10  | FII1812W   | 4   | FTI1012M     | 8   |
| 2226.0    | 16  | 2858.0    | 15  | FID1808R    | 4   | FII1812WM  | 6   | FTI1018      | 8   |
| 2227.0    | 16  | 2859.0    | 15  | FID1808RB   | 10  | FII1812Y   | 4   | FTI1608      | 8   |
| 2228.0    | 16  | 2860.0    | 15  | FID1808RM   | 6   | FII1812YM  | 6   | FTI1608M     | 8   |
| 2229.0    | 16  | 2861.0    | 15  | FID1808RRE  | 10  | FII2006    | 4   | FTI1612      | 8   |
| 2267.0    | 14  | 2863.0    | 15  | FID1810GR   | 4   | FII2006M   | 6   | FTI1612M     | 8   |
| 2272.0    | 14  | 2864.0    | 15  | FID1810GRM  | 6   | FII2008    | 4   | FTI1618      | 8   |
| 2276.0    | 14  | 2865.0    | 15  | FID1810R    | 4   | FII2008B   | 10  | FTI1808W     | 8   |
| 2388.0    | 16  | 2866.0    | 15  | FID1810RM   | 6   | FII2008M   | 6   | FTI1808WM    | 8   |
| 2389.0    | 16  | 2867.0    | 15  | FID1812GR   | 4   | FII2008RE  | 10  | FTI1808Y     | 8   |
| 2390.0    | 14  | 2868.0    | 15  | FID1812GRM  | 6   | FII2010    | 4   | FTI1808YM    | 8   |
| 2391.0    | 16  | 2869.0    | 15  | FID1812R    | 4   | FII2010M   | 6   | FTI1810      | 8   |
| 2392.0    | 16  | 2870.0    | 15  | FID1812RM   | 6   | FII2012    | 4   | FTI1810M     | 8   |
| 2393.0    | 16  | 2871.0    | 15  | FID2006     | 4   | FII2012M   | 6   | FTI1812W     | 8   |
| 2394.0    | 16  | 2872.0    | 15  | FID2006M    | 6   | FII2206    | 4   | FTI1812WM    | 8   |
| 2395.0    | 16  | 22.014    | 20  | FID2008     | 4   | FII2206M   | 6   | FTI1812Y     | 8   |
| 2396.0    | 16  | 22.015    | 20  | FID2008B    | 10  | FII2208    | 4   | FTI1812YM    | 8   |
| 2397.0    | 14  | 22.016    | 20  | FID2008M    | 6   | FII2208M   | 6   | FTI1814      | 8   |
| 2398.0    | 14  | 22.017    | 20  | FID2008RE   | 10  | FII2208RE  | 10  | FTI1818W     | 8   |
| 2399.0    | 14  | 22.018    | 20  | FID2010     | 4   | FII2212    | 4   | FTI1818Y     | 8   |
| 2400.0    | 14  | 22.019    | 20  | FID2010M    | 6   | FII2212M   | 6   | FTI2008      | 8   |
| 2401.0    | 14  | 22.030    | 19  | FID2012     | 4   | FII2406    | 4   | FTI2008M     | 8   |
| 2402.0    | 14  | 2884.0    | 17  | FID2012M    | 6   | FII2406M   | 6   | FTI2010      | 8   |
| 2500.0    | 14  | 2884.9    | 17  | FII0120     | 4   | FII2408    | 4   | FTI2010M     | 8   |
| 2620.0    | 14  | 2885.0    | 17  | FII0125     | 4   | FII2408M   | 6   | FTI2012      | 8   |
| 2621.0    | 14  | 2885.9    | 17  | FII0130     | 4   | FII2412    | 4   | FTI2012M     | 8   |
| 2622.0    | 14  | 318001002 | 19  | FII0216     | 4   | FII2412M   | 6   | FTI2208      | 8   |
| 2623.0    | 14  | E110.000  | 19  | FII0218     | 4   | FII2606    | 4   | FTI2208M     | 8   |
| 2775.0    | 17  | E110.005  | 19  | FII0225     | 4   | FII2606M   | 6   | K70ZA000109  | 11  |
| 2776.0    | 17  | E110.010  | 19  | FII0416     | 4   | FII2608    | 4   | K70ZA000110  | 11  |
| 2777.0    | 17  | E110.015  | 19  | FII0418     | 4   | FII2608M   | 6   | K70ZA000111  | 11  |
| 2778.0    | 17  | E110.020  | 19  | FII0422     | 4   | FTD0616    | 8   | K70ZA000112  | 12  |
| 2786.0    | 14  | FID0120   | 4   | FII0612     | 4   | FTD0625    | 8   | K70ZA000113  | 12  |
| 2787.0    | 14  | FID0125   | 4   | FII0618     | 4   | FTD0812    | 8   | K70ZA000114  | 12  |
| 2788.0    | 14  | FID0130   | 4   | FII0812     | 4   | FTD0812M   | 8   | K70ZA000115  | 12  |
| 2789.0    | 14  | FID0216   | 4   | FII0812M    | 6   | FTD0818    | 8   | K70ZA000117  | 13  |
| 2790.0    | 16  | FID0218   | 4   | FII0818     | 4   | FTD1012    | 8   | K70ZA000118  | 13  |
| 2791.0    | 16  | FID0225   | 4   | FII1012     | 4   | FTD1012M   | 8   | K70ZA000125  | 13  |
| 2792.0    | 16  | FID0416   | 4   | FII1012M    | 6   | FTD1018    | 8   | V70ZA000001  | 11  |
| 2793.0    | 16  | FID0418   | 4   | FII1018     | 4   | FTD1608    | 8   | V70ZA0000016 | 11  |
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| 2796.0    | 17  | FID0618   | 4   | FII1606     | 4   | FTD1618    | 8   |              |     |
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**TITLE** - Title to the products of ALTECH shall remain with ALTECH until payment is made in full by Customer. Such reservation of title is for the purpose of securing the purchase price and shall not relieve Customer of the duty to inspect the products upon receipt, to notify ALTECH of any deficiencies or defects, and to exercise due care in the use, installation, operation, and maintenance of the products when on the premise of the Customer or under the control of the Customer. Notwithstanding any reservation of title by ALTECH, risk of loss shall pass to customer at any time of shipment.

**SHIPMENT AND DELIVERY** - All orders for destination in the mainland United States (less Hawaii, Alaska and non-continental United States possessions) will be shipped F.O.B. Flemington, N.J. All destination, shipping and other charges shall be paid by the Customer in accordance with ALTECH's then current shipping and billing practices.

Delivery dates given in the acceptance of any order are approximate. ALTECH shall not be liable for delays in delivery or in performance due to causes beyond its reasonable control including acts of God, acts of Customer, acts of civil or military authority, fires, strikes or other labor disturbances, war, riot or delays in transportation. In the event of such delay, the date of delivery or performance shall be extended for a period equal to the time lost by reason of the delay.

**PRICE** - PRICES in any ALTECH publication are subject to change without prior notification. Catalog prices are based on prices published in the current price list. All written quotations are valid for thirty (30) days from the date of quotation. Customer shall pay all sales, use, excise or similar taxes whenever ALTECH must itself pay and/or collect such tax from Customer arising out of the sale.

**PAYMENT** - Customer agrees to make payment within thirty (30) days of date of the invoice from ALTECH. Customer agrees to pay a late payment charge of one and one-half percent (1.5% per month, or the maximum late payment charge permitted by applicable law, whichever is less, on any unpaid amount for each calendar month (or fraction thereof) that such payment is in default. Orders amounting to less than \$100.00 will be billed at \$100.00 plus freight. Full carton purchases are required. In the event of referral to an attorney for collection, reasonable attorney's fees for collection of the overdue amount shall be paid by Customer. In the event payment is not received within 30 days from the date of invoice, any discount shall be cancelled and the full list price will be due.

**LIMITED WARRANTY** - ALTECH warrants to Customer that the equipment purchases shall be free from defects in material and workmanship under normal use and service for a period of one year from shipment.

Written notice as an explanation of the circumstances of any claim that the equipment has proved defective in material or workmanship shall be given promptly by the Customer to ALTECH.

ALTECH will not be liable for any misuse, improper operations, improper installation, improper maintenance, alteration, modification, accident or unusual degradation of the equipment or parts due to an unsuitable installation environment.

No representation of other affirmation of facts, including but not limited to statements regarding capacity, suitability for use or performance of the equipment, shall be or be deemed to be a warranty or representation by ALTECH for any purpose, nor give rise to any liability or obligation of ALTECH whatsoever.

Customer's sole and exclusive remedy in the event of breach of warranty, as set forth herein, is expressly limited to (1) the correction of the defect by adjustment, repair, modification, or replacement, or (2) issuance of a credit or refund of the purchase price for the defective equipment at ALTECH's election and sole expense.

EXCEPT AS SPECIFICALLY PROVIDED IN THIS AGREEMENT, THERE ARE NO OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

THIS WARRANTY EXTENDS ONLY TO THE CUSTOMER FROM ALTECH OR ITS AUTHORIZED DISTRIBUTOR.

**LIMITATION OF LIABILITY** - IN NO EVENT, SHALL ALTECH BE LIABLE FOR LOSS OF PROFITS, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER SIMILAR DAMAGES ARISING OUT OF ANY BREACH OF THIS AGREEMENT OR OBLIGATIONS UNDER THE AGREEMENT.

ALTECH SHALL NOT BE LIABLE FOR ANY DAMAGES CAUSED BY DELAY IN SHIPMENT, INSTALLATION OR FURNISHING OF EQUIPMENT OR SERVICES UNDER THIS AGREEMENT.

No action arising out of any claimed breach of this Agreement may be brought by either party more than two (2) years after the cause of action has accrued.

**PATENT INDEMNITY** - ALTECH shall defend or settle any suit or proceeding brought against Customer based on a claim that any equipment made to ALTECH design and furnished hereunder constitutes an infringement of any existing United States patent, provided (ALTECH) is notified promptly in writing and is given complete authorization and information required for the defense, and ALTECH shall pay all damages and costs awarded against Customer, but shall not be responsible for any costs, expense or compromise incurred or made by Customer without ALTECH's prior written consent. If any equipment is in ALTECH's opinion likely to or does become the subject of a claim for patent infringement, ALTECH may at its option and expense procure for Customer the right to continue using the device, modify it to become non-infringing, but in the event ALTECH is not reasonably able to modify, substitute, or otherwise procure for Customer the right to continue using it, ALTECH will remove such equipment and refund to Customer the amount paid in excess of a reasonable rental for past use.

ALTECH shall not be liable for any infringement or claim based upon use of the equipment in combination with other equipment not supplied by ALTECH or with modifications made by Customer.

The foregoing states the entire liability of ALTECH to Customer arising from patent infringement.

**SELLER'S REMEDIES** - Should Customer fail to make any payment within ten (10) days of its due date, or fail to perform any other of the Customer's obligation hereunder upon thirty (30) days written notice, or should Customer be or become insolvent or be a party to any bankruptcy receivership proceeding prior to full payment of all amounts payable hereunder, ALTECH may: (a) with or without demand or notice to customer declare the entire amount unpaid immediately due and payable; (b) enter upon the premises where the equipment may be found and remove it (Customer shall assemble the equipment and make it available to ALTECH at a place reasonably convenient to both parties and shall permit and assist ALTECH in effecting the retaking and removal of the equipment); and (c) sell any or all the equipment as permitted under applicable law, applying the proceeds of the sale to payment of the expenses of retaking, repairing and selling the equipment, reasonable attorney fees and to the satisfaction of all indebtedness then due and unpaid under this Agreement. Any surplus shall be paid to Customer and any deficiency shall be paid to ALTECH by Customer.

The remedies provided herein shall be cumulative and in addition to all other remedies provided by law or equity or under the Uniform Commercial Code.

**GOVERNING LAW** - This agreement will be governed by the Laws of the State of New Jersey.

**GENERAL** - This Agreement shall only become effective and binding when either (a) it has been accepted and executed by an authorized representative of ALTECH, or (b) the equipment has been shipped to Customer, with or without acceptance in writing hereon. Notice of acceptance is hereby waived by Customer. Customer hereby acknowledges receipt of a true and complete copy hereof.

No addition to or modification of any of the Terms and Conditions of Sale as they appear herein shall be binding upon ALTECH unless signed in writing by duly authorized representative of ALTECH in Flemington, N.J.

Typographical and clerical errors in quotations, orders and acknowledgments are subject to correction.

This Agreement is not assignable without the prior written consent of ALTECH. Any attempt to assign any of the rights, duties or obligations of this Agreement without such consent is void.

If any provision or provisions of this Agreement shall be held to be invalid, illegal or unenforceable, the validity, legality and enforceability, of the remaining provisions shall not in any way be affected or impaired thereby.

ALTECH is not responsible for failure to fulfill its obligation under this Agreement due to causes beyond its control, or except as agreed herein.

THE CUSTOMER ACKNOWLEDGES THAT HE HAS READ THE AGREEMENT, UNDERSTANDS IT, AND AGREES TO BE BOUND BY ITS TERMS AND CONDITIONS. FURTHERMORE, THE CUSTOMER AGREES THAT IT IS THE COMPLETE AND EXCLUSIVE STATEMENT OF THE AGREEMENT BETWEEN THE PARTIES, WHICH SUPERSEDES ALL PROPOSALS OR PRIOR AGREEMENTS, ORAL OR WRITTEN, EXPRESSED OR IMPLIED, AND ALL OTHER COMMUNICATIONS BETWEEN THE PARTIES RELATING TO THE SUBJECT MATTER OF THIS AGREEMENT.

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Altech offers a wide range of DIN Rail or panel mount cable interface modules, relay interface modules, power supplies, carrier modules, and custom designed modules. Cable to connector models include: D-Sub connectors, ribbon cable connectors, and Dip socket connectors to terminals. Standard relay modules from 1 to 16 channels, and safety relay modules from 1 to 16 channels and up to 10 poles are included. The catalog also contains switching power supplies, linear power supplies, and custom designed interface modules.

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### Terminal Blocks



Altech offers a NEW Terminal Block catalog with the most competitively priced blocks in the industry. We feature screw and spring clamp models for DIN rail and panel mount applications. This advanced line of wire termination products will increase your design options and help to get the job done more efficiently. Our line of blocks include feed-through (single, double or triple level), distribution, ground, fuse, disconnect, thermocouple, surge suppressor and indicator. A wide variety of accessories, tools and ferrules are available.

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### Liquid Tight Strain Reliefs



This 64-page catalog introduces Altech's full line Liquid Tight Strain Reliefs (Cord Grips) which are used to seal cable entries, keep contaminants from entering enclosures, provide strain relief and thus reduce stress on components and termination points inside enclosures. Available in standard, high-performance, and economy versions, functions include Straight-Through, Increased Strain Relief, Bend Protection, Pull/Bend Protection, Multi-conductor, Flat Cable and EMI/RFI. They can be used with almost any type of cable, cord or conductor - solid, stranded, flat, shielded, high temperature, etc.

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### Industrial Enclosures



Altech's expanded line of TK Industrial Enclosures, with metric knockouts, is here. Now our entire line of industrial enclosures is in metric. Metric knockouts align with international standards making selection easier and more universal. Plus the PG standard is still available. All of Altech's enclosures are internationally accepted and stand up to the harshest environments. They protect against dust, water and corrosion while enhancing the value of your product. Rated up to IP66 (NEMA type 4x), Altech enclosures are available in a wide range of sizes.

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### Motor Disconnect Switches



Altech's line of Motor Disconnect Switches are UL 508 listed as Manual Motor Controllers for AC Motor Starting Across-the-line and AC General use. This new 16 page catalog includes the 3 different handle designs, which are all available in gray/black or yellow/red housings. Electrical ratings are 25-150A / 600V. The switches are non-fused DIN Rail mountable. Neat features include: snap-on auxiliary switches, door mounting kit and a retrofit 30A fuse holder. Also featured are Enclosed Motor Disconnect Switches & Fused Enclosed Motor Disconnect Switch (30A) in plastic or stainless housings.

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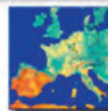
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