

# Large Ferrule Crimping Dies

## specifications

Large ferrule crimping dies shall be designed to snap into the battery powered crimping tool CT-3001 or CT-3001/E and shall have a cycle time of three seconds. These crimping dies shall be used to install ferrules onto the stripped ends of #1 AWG to 400 kcmil flexible cable, classes DLO, H, I, K, and M. The ferrules shall be used to manage the individual wire strands comprising the bundle and prevent broken and turned back strands. Ferrules on mechanically terminated cable shall prevent generation of excessive heat. Ferrule crimping dies shall provide sufficient wire pullout tensile force and shall reduce the cable's outer profile to less than the ferrule's outside diameter. These crimping dies and ferrules shall be used to improve the efficiency and reliability of electrical distribution panels, switchgear, MCC panels, and transmission stations.



## technical information

<b>Die dimensions:</b>	See table on next page
<b>Die life:</b>	50,000 cycles
<b>Material:</b>	4140 Steel/RC 32-35
<b>Mounting style:</b>	Snap-in
<b>Plating:</b>	Chrome
<b>Weight approximately:</b>	0.65 lb. per die set

## key features and benefits

<b>Interchangeable dies</b>	Allows the use of one power tool for multiple wire sizes
<b>Snap-in mounting</b>	Delivers less than a 20 second exchange of die sets; no tools needed for additional labor savings
<b>Durable material</b>	Chrome plated steel to insure up to 50,000 cycles and protection against corrosion
<b>Impressed die index number</b>	Provides a quick post crimp inspection of ferrule for superior performance and quality assurance
<b>Single stroke, short cycle time</b>	2.9 second cycle time, 26% faster than most comparable tools to deliver quick and quality terminations
<b>Die closure</b>	Designed to minimize the profile of the crimped end of wire to assist feeding into connector wire entries
<b>Die sets for #1 AWG to 400 kcmil</b>	A wide range of the wire types and sizes for use in a variety of applications
<b>6-ton tool frame of CT-3001</b>	Provides sufficient compression of ferrules during crimping to prevent wire pullout and deliver a secure connection

## applications

Panduit large ferrules and crimping dies are designed for electrical distribution panels, switchgear, motor control centers (MCC), transmission stations, and other applications that use large flex cable, #1 AWG to 400 kcmil, classes DLO, H, I, K, and M. These ferrules are used to improve the quality and the installation of flex cable in a variety of mechanical connectors, which are found on circuit breakers, contactors,

power distribution blocks, and other devices. The mechanical connectors can have circular or square wire entries and terminate conductors with a screw, screw-cage, or spring. The use of ferrules and their proper installation improves the efficiency, equipment reliability, and safety of the termination and overall equipment. The use of ferrules in industrial control panels is in accordance with UL 508A.

### Large Ferrule Crimping Dies

#### Wire size AWG (mm<sup>2</sup>)

<b>1 – 1/0 (50):</b>	CD-2001-F87
<b>2/0 (70):</b>	CD-2001-F89
<b>3/0 (95):</b>	CD-2001-F90
<b>4/0 – 250 kcmil (120):</b>	CD-2001-F91
<b>300 kcmil (150):</b>	CD-2001-F92
<b>350 kcmil (185):</b>	CD-2001-F93
<b>400 kcmil (240):</b>	CD-2001-F94

### Related Products

#### Large Ferrules Non-Insulated

#### Wire size AWG (mm<sup>2</sup>)

<b>1 – 1/0 (50):</b>	F87-18-C
<b>1 – 1/0 (50):</b>	F87-22-C
<b>1 – 1/0 (50):</b>	F87-25-C
<b>1 – 1/0 (50):</b>	F87-32-C
<b>2/0 (70):</b>	F89-25-L
<b>2/0 (70):</b>	F89-32-L
<b>3/0 (95):</b>	F90-25-L
<b>3/0 (95):</b>	F90-30-L
<b>3/0 (95):</b>	F90-32-L
<b>4/0 – 250 kcmil (120):</b>	F91-32-L
<b>4/0 – 250 kcmil (120):</b>	F91-40-L
<b>300 kcmil (150):</b>	F92-32-L
<b>300 kcmil (150):</b>	F92-38-L
<b>350 kcmil (185):</b>	F93-32-Q
<b>350 kcmil (185):</b>	F93-40-Q
<b>400 kcmil (240):</b>	F94-40-Q

#### Large Insulated Ferrules DIN End Sleeve

#### Wire size AWG (mm<sup>2</sup>), DIN color

<b>1 – 1/0 (50) Blue:</b>	FSD87-20-L
<b>1 – 1/0 (50) Blue:</b>	FSD87-25-Q
<b>2/0 (70) Yellow:</b>	FSD89-20-Q
<b>2/0 (70) Yellow:</b>	FSD89-27-Q
<b>3/0 (95) Red:</b>	FSD90-25-Q
<b>4/0 – 250 kcmil (120) Blue:</b>	FSD91-27-Q
<b>300 kcmil (150) Yellow:</b>	FSD92-32-Q

#### 6-Ton, In-Line Crimping Tool, Die Type, Lithium-Ion Powered Hydraulic

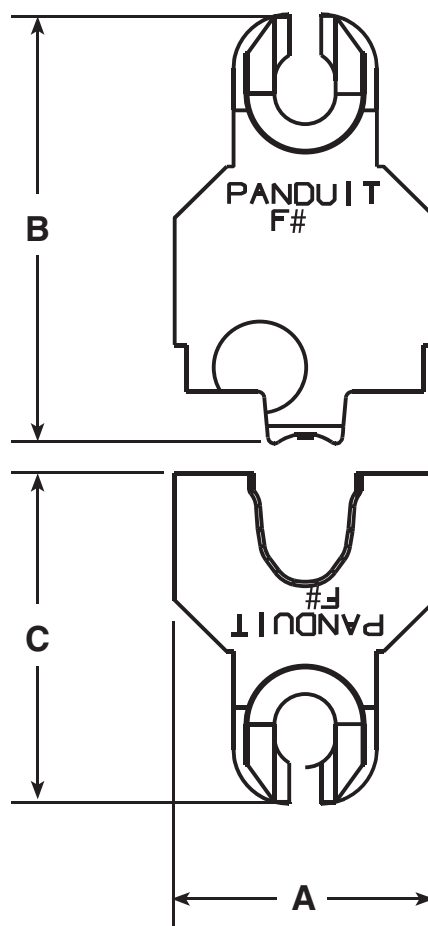
#### Charger Voltage

<b>120 VAC:</b>	CT-3001
<b>230 VAC:</b>	CT-3001/E

# Large Ferrule Crimping Dies

Part Number	Used with Tool*	Wire Size (AWG)	Wire Size (mm <sup>2</sup> )	Ferrule Series	Width A (In.)	Width A (mm)	Height Top B (In.)	Height Top B (mm.)	Height Bottom C (In.)	Height Bottom C (mm)	Depth (In.)	Depth (mm)
<b>CD-2001-F87</b>	CT-3001	1 AWG – 1/0	50.0	F87, FSD87	1.18	30.1	1.97	50.2	1.52	38.7	1.25	31.8
<b>CD-2001-F89</b>	CT-3001	2/0	70.0	F89, FSD89	1.18	30.1	1.93	49.0	1.52	38.7	1.25	31.8
<b>CD-2001-F90</b>	CT-3001	3/0	95.0	F90, FSD90	1.18	30.1	1.91	48.6	1.52	38.7	1.25	31.8
<b>CD-2001-F91</b>	CT-3001	4/0 – 250 kcmil	120.0	F91, FSD91	1.18	30.1	1.86	47.2	1.52	38.7	1.53	38.9
<b>CD-2001-F92</b>	CT-3001	300 kcmil	150.0	F92, FSD92	1.18	30.1	1.83	46.5	1.52	38.7	1.53	38.9
<b>CD-2001-F93</b>	CT-3001	350 kcmil	185.0	F93	1.18	30.1	1.75	44.5	1.58	40.1	1.53	38.9
<b>CD-2001-F94</b>	CT-3001	400 kcmil	240.0	F94	1.18	30.1	1.63	41.4	1.60	40.6	1.53	38.9

\*Compatible with the CT-2001 and CT-3001/E



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