## **Ultra-Pod Fully Insulated FASTON Receptacles and Tabs**

#### **Product Facts**

- Reduced insertion force
- Designed for correct lead-in of tab
- Mates with typical 110, 187 and 250 Series tab styles including those with shoulders
- UL rated at +105°C
- 110 Series accepts 22-18 AWG [0.3–1 mm<sup>2</sup>], 187 Series accepts 20-16 AWG [0.5–1.4mm<sup>2</sup>] wire and 250 Series accepts 22-10 AWG [0.3–5 mm<sup>2</sup>] wire
- Visual inspection of crimp and wire brush
- Terminated by automatic or semi-automatic equipment to meet production requirements
- Complies with the IEC 380, 601 and 950 and UL 1950 requirements for a secondary means of insulation fixing
- Listed by Underwriters Laboratories Inc., File No. E66717
- CSA Certified, File No. LR 7189
- VDE tested according to DIN VDE 0627/ 9.91, VDE Reg. No. 5193

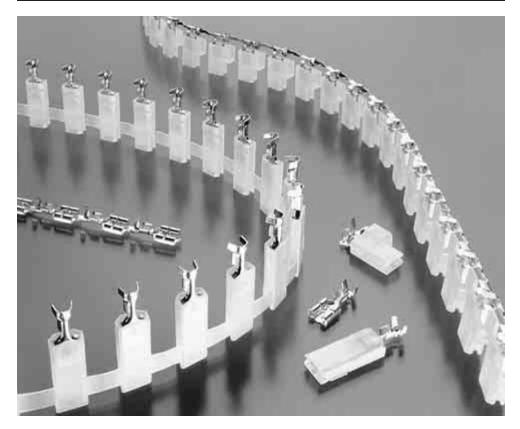
**(**\$Þ.ª

Technical Documents Product Specification 108-1285 108-2215

Application Specification 114-2124

**Hand Tools — Insertion** 250 Series—314916-1 250 Series Flag—314919-1

Hand Tools — Extraction 250 Series—314917-1



Ultra-Pod Fully Insulated **FASTON Receptacles offer** the newest in one-step automatic application of insulated quick connects. The unique integral plastic carrier designed specifically for this product allows insulated F-Crimp terminations to be produced quickly and easily. Applied cost savings are attainable with either bench or high-speed automatic termination equipment and the elimination of any secondary insulation operations. Both the crimping of the terminal and the terminal insulating occur in a single stroke of the press and applicator-the crimping on the downstroke and the insulating on the up-stroke.

The receptacles contained within the Ultra-Pod **FASTON Receptacle** assemblies are tested and customer qualified and can be used in existing applications where insulation has been accomplished by other means. The low insertion force design provides easier tab insertion, reduces operator fatigue and improves the productivity and reliability of the end assembly operation.

The insulating housing is produced by a unique molding process which provides an integral carrier and eliminates the crimp location problems related to secondary carriers. This housing, produced from 130°C rated 6/6 nylon, covers the FASTON receptacle sufficiently to provide for use in 600-volt applications. Most importantly, this insulating system helps eliminate the workplace hazards and labor costs of chemically expanded or heat shrink tubing.

Depending on production requirements, Tyco Electronics provides a complete selection of terminating equipment from bench press to automatic lead maker.

Ultra-Pod Fully Insulated FASTON Receptacles

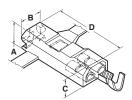
> Catalog 82004 Revised 10-07

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

# Ultra-Pod Fully Insulated FASTON Receptacles and Tabs (Continued)

#### **Insulation Support**



Description	Wire Range	Ins. Dia. Range		Dimen	sions		Mating Tab	UL 941	Color	Material and Finish	Part Numbers
Description			Α	В	С	D					Part Numbers
							.020	V-2	Natural	Brass	521228-1
							0.51	• =	. tatara	Tin Plated Brass	521228-2
.110	22-18	.080120	.151	.224	.205	<b>.805</b> 20.45	<b>.032</b> 0.81	V-2	Natural	Brass	521436-1
Series	22-10	2.03-3.05	3.83	5.69	5.21					Tin Plated Brass	521436-2
								V-0	Natural	Brass	521437-1 <sup>2</sup>
									Naturai	Tin Plated Brass	521437-2 <sup>2</sup>
							<b>.020</b> 0.51	V-2	Natural	Brass	520973-1
					<b>.200</b> 5.08			V-2	Inatural	Tin Plated Brass	520973-2
								V-0	Notural	Brass	521225-1
	20-16	.090130	.170	<b>.295</b> 7.49		.775		V-0	Natural	Tin Plated Brass	521225-2
.187	20-10	2.29-3.30	4.32			19.68		V-2 V-0	Natural	Brass	520982-1
Series							.032			Tin Plated Brass	520982-2
							0.81		Natural	Brass	521284-1
										Tin Plated Brass	521284-2
	18-16 or 2-18	(2) <b>.105</b> Max. 2.67	. <b>170</b> 5.33					V-2	Natural	Brass	521293-1 <sup>4</sup>
				<b>.295</b> 7.49	<b>.200</b> 5.08	<b>.775</b> 19.68	.020			Tin Plated Brass	521293-24
							0.51	V-0	Natural	Brass	521586-1 <sup>₄</sup>
										Tin Plated Brass	521586-2 <sup>4</sup>
	22-18	<b>.090130</b> 2.29-3.30	<b>.195</b> 4.95	<b>.370</b> 9.40	<b>.225</b> 5.72	<b>.945</b> 24.00	<b>.032</b> 0.81	V-2 Natura	Natural	Brass	520988-1
									Naturai	Tin Plated Brass	520988-2
								V-0	Natural	Brass	521368-1
										Tin Plated Brass	521368-2
		8-14 <b>.120170</b> 3.05-4.32	<b>.195</b> 4.95	<b>.370</b> 9.40	<b>.225</b> 5.72	<b>.945</b> 24.00		V-2	Natural	Brass	520963-1
								V-2	Inatural	Tin Plated Brass	520963-2
	19 14						.032	V-0	Natural	Brass	521367-1
	10-14						0.81			Tin Plated Brass	521367-2
								V-2	Black	Tin Plated Brass	521011-2
.250								V-2		Nickel Plated Steel	521011-1 <sup>2,3</sup>
Series		(2) <b>.105</b> Max. 2.67	<b>.195</b> 4.95	<b>.370</b> 9.40				V-2	Notural	Brass	521637-1
	18-14 or				.225	.945	.032	V-2	Natural	Tin Plated Brass	521637-2
	2-18				5.72	24.00	0.81	V-0	Notural	Brass	521632-1
								v-0	Natural	Tin Plated Brass	521632-2
	14-10	0 <b>.130180</b> 3.30-4.57		.370	<b>.225</b> 5.72	<b>.945</b> 24.00	<b>.032</b> 0.81	<b>N</b> 0	Notural	Brass	520974-1
			.195					V-2	Natural	Tin Plated Brass	520974-2
			4.95	9.40					-0 Natural	Brass	521366-1
								V-0		Tin Plated Brass	521366-2

<sup>1</sup> Flammability rating of plastic material.

<sup>2</sup> 150°C rated nylon.

<sup>3</sup> UL Recognized.

<sup>4</sup> UL pending for double wire termination.

#### Note: All part numbers are RoHS compliant.

Catalog 82004 Revised 10-07

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

# Ultra-Pod Fully Insulated FASTON Receptacles and Tabs (Continued)

# **Flag Insulation Support** Dimensions Wire Range Ins. Dia. Range Mating Tab Material and Finish Description UL 941 Color Part Numbers Α в С D Brass 521470-1 V-2 Natural

<sup>1</sup>Flammability rating of plastic material.

<sup>2</sup>UL pending for double wire terminations. <sup>3</sup>No UL or CSA approvals.

Note: All part numbers are RoHS compliant.

94

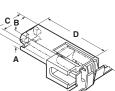
www.tycoelectronics.com

Catalog 82004 Revised 10-07

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

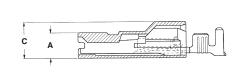
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

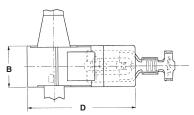


		<b>.060110</b> 1.52-2.79			<b>.485</b> 12.32	<b>.680</b> 17.27	.020	v-2	Naturai	Tin Plated Brass	521470-2
							0.51	V-0	Natural	Brass	521596-1
	22-18		.170	<b>.295</b> 7.49				••	Naturai	Tin Plated Brass	521596-2
.187	22-10		4.32					V-2	Natural	Brass	521598-1
							.032			Tin Plated Brass	521598-2
							0.81	V-0	Natural	Brass	521600-1
									Naturai	Tin Plated Brass	521600-2
Series						<b>.680</b> 17.27		V-2	Notural	Brass	521471-1 <sup>2</sup>
					<b>.485</b> 12.32		.020	v-2	Natural	Tin Plated Brass	521471-2 <sup>2</sup>
				<b>.295</b> 7.49			0.51	V-0	Natural	Brass	521597-1 <sup>2</sup>
	18-14	0 or (2) 2.66 Max.	<b>.170</b> 4.32							Tin Plated Brass	521597-2 <sup>2</sup>
	(2) 20 or (2) 18							V-2 Natur	Natural	Brass	521599-1 <sup>2</sup>
	(2) 10						.032		Maturai	Tin Plated Brass	521599-2 <sup>2</sup>
							0.81	V-0	Natural	Brass	521601-1 <sup>2</sup>
								v-0	ivaturai	Tin Plated Brass	521601-2 <sup>2</sup>
					<b>.585</b> 14.86	<b>.680</b> 17.27		V-2	Natural	Brass	521050-1
	22-18	<b>.050100</b> 1.27-2.54	<b>.200</b> 5.08	<b>.370</b> 9.40			<b>.032</b> 0.81		Naturai	Tin Plated Brass	521050-2
	22-10							V-0	Natural	Brass	521411-1
										Tin Plated Brass	521411-2
		<b>.110160</b> 2.79-4.06	<b>.200</b> 5.08	.370	.585	.680			Natural	Brass	520971-1
.250								V-2		Tin Plated Brass	520971-2
.250 Series	18-14						.032	V-2	Black	Tin Plated Brass	520971-4
001100	18-14			9.40	14.86	17.27	0.81			Nickel Plated Steel	521087-1 <sup>3</sup>
								V-0	Natural	Brass	521282-1
									ivaluidi	Tin Plated Brass	521282-2
	18-14	(2) <b>.105</b> Max. 2.66	200	<b>.370</b> 9.40	<b>.585</b> 14.86	<b>.680</b> 17.27	<b>.032</b> 0.81	V-2	Natural	Brass	521112-1
	(2) 20 or		<b>.200</b> 5.08					V-0	Natural	Brass	521633-1
	(2) 18	2.50	0.00				0.01	v-0		Tin Plated Brass	521633-2

# Ultra-Pod Fully Insulated FASTON Receptacles and Tabs (Continued)

#### **Positive Lock Insulation Support**

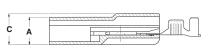


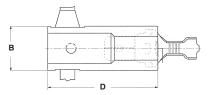


Description	Wire Range	Ins. Dia. Range	Dimensions				Mating	111 041	0.1	Material	David Niewski awa
			Α	В	С	D	Tab	UL 941	Color	and Finish	Part Numbers
	18-14	<b>.110180</b> 2.79-4.57	<b>.186</b> 4.72	<b>.307 .265</b> 7.80 6.73		<b>.812</b> 20.62		V-2	Notural	Brass	521271-1 <sup>2</sup>
.187 Series							<b>.020</b> 0.51		Natural	Tin Plated Brass	521271-2 <sup>2</sup>
Genes					0.75		0.01	V-0	Natural	Tin Plated Brass	521212-2 <sup>2</sup>
								N/O	Matural	Brass	521213-1 <sup>2</sup>
.250	10.14	14 <b>.110180 .205 .370 .245</b> 2.79-4.57 5.21 9.40 6.22	.950	.032	V-2	Natural	Tin Plated Brass	521213-2 <sup>2</sup>			
Series	18-14		9.40	9.40 6.22	24.13	0.81		Network	Brass	521317-1 <sup>2</sup>	
								V-0	Natural	Tin Plated Brass	521317-2 <sup>2</sup>

<sup>1</sup> Flammability rating of plastic material. <sup>2</sup> UL Recognized, CSA Certified

### Tabs **Insulation Support**





Description	Wire Range	Ins. Dia. Range	Dimensions				Tab	UL 941	Color	Material	Part Numbers
Description			Α	В	С	D	iau	UL 94	COIOI	and Finish	Fait Nullibers
		<b>.130180</b> 3.30-4.57	.275			<b>1.120</b> 28.45		V-2	Natural	Brass	521217-1
	18-14				.310		.032	V-2	Indiural	Tin Plated Brass	521217-2
.250			6.99		7.87		0.81	V-0	Natural	Brass	521451-1
Series								V-0	Indiural	Tin Plated Brass Brass Tin Plated Brass Brass	521451-2
	12-10	12-10 <b>.150200</b> 3.81-5.08	.275	.450	.310	1.120	<b>.032</b> 0.81	V-2	N	Brass	521227-1 <sup>2</sup>
			6.99	11.43	3 7.87	28.45			Natural	Tin Plated Brass Brass Tin Plated Brass	521227-2 <sup>2</sup>

<sup>1</sup> Flammability rating of plastic material. <sup>2</sup> No UL or CSA approvals

Note: All part numbers are RoHS compliant.

Catalog 82004 Revised 10-07

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

95