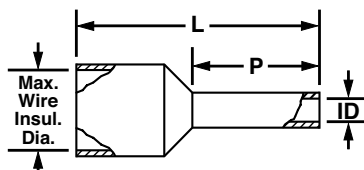




Insulated Ferrules – Single Wire DIN End Sleeve

Type FSD

- Polypropylene insulation housing conforms to DIN color requirements
- Meets DIN standards for single wire containment
- Funnel entry for faster insertion and lower installed cost
- Designed with a seamless barrel to contain loose wire strands for superior terminations
- Eases insertion of wire into terminal block
- Suitable for limited space panel applications
- Multiple pin lengths available for a variety of terminal blocks



Part Number	Wire Size		Color Code	Max. Wire Insul. Dia.		Figure Dimensions						Wire Strip Length		Recommended Installation Tool	Std. Pkg. Qty.
	AWG	mm ²		In.	mm	L		P		ID		In.	mm		
FSD72-6-D	26 AWG	0.14	Gray	0.07	2.0	0.41	10.5	24.0	6.0	0.03	0.8	3/8	9.5	CT-1002, CT-1123	500
FSD72-8-D	26 AWG	0.14	Gray	0.07	2.0	0.49	12.5	31.0	8.0	0.03	0.8	15/32	11.9		500
FSD73-6-D	24 AWG	0.25	Yellow	0.07	2.0	0.41	10.5	24.0	6.0	0.03	0.8	3/8	9.5	CT-1002, CT-1123	500
FSD73-8-D	24 AWG	0.25	Yellow	0.07	2.0	0.49	12.5	31.0	8.0	0.03	0.8	15/32	11.9		500
FSD74-6-D	24-22 AWG	0.34	Turquoise	0.07	2.0	0.41	10.5	24.0	6.0	0.03	0.8	3/8	9.5	CT-1002, CT-1123	500
FSD74-8-D	24-22 AWG	0.34	Turquoise	0.07	2.0	0.49	12.5	31.0	8.0	0.03	0.8	15/32	11.9		500
FSD75-6-D*	22-20 AWG	0.5	White	0.09	2.5	0.45	11.5	24.0	6.0	0.04	1.1	3/8	9.5	CT-1002, CT-1003, CT-1123	500
FSD75-8-D*				0.09	2.5	0.53	13.5	31.0	8.0	0.04	1.1	15/32	11.9		500
FSD75-10-D*				0.09	2.5	0.61	15.5	0.39	10.0	0.04	1.1	3/8	9.5		500
FSD76-6-D	18 AWG	0.75	Gray	0.11	2.8	0.47	12.0	0.24	6.0	0.05	1.3	15/32	11.9	CT-1002, CT-1003, CT-1123	500
FSD76-8-D				0.11	2.8	0.55	14.0	0.31	8.0	0.05	1.3	17/32	13.5		500
FSD76-10-D				0.11	2.8	0.63	16.0	0.39	10.0	0.05	1.3	3/8	9.5		500
FSD76-12-D				0.11	2.8	0.71	18.0	0.47	12.0	0.05	1.3	15/32	11.9		500
FSD77-6-D	16 AWG	1.0	Red	0.12	3.0	0.49	12.5	0.24	6.0	0.06	1.5	17/32	13.5	CT-1002, CT-1003, CT-1123	500
FSD77-8-D				0.12	3.0	0.57	14.5	0.31	8.0	0.06	1.5	5/8	15.9		500
FSD77-10-D				0.12	3.0	0.65	16.5	0.39	10.0	0.06	1.5	3/8	9.5		500
FSD77-12-D				0.12	3.0	0.73	18.5	0.47	12.0	0.06	1.5	15/32	11.9		500
FSD78-6-D	16 AWG	1.5	Black	0.12	3.0	0.49	12.5	0.24	6.0	0.07	1.8	17/32	13.5	CT-1002, CT-1003, CT-1123	500
FSD78-8-D				0.12	3.0	0.57	14.5	0.31	8.0	0.07	1.8	5/8	15.9		500
FSD78-10-D				0.12	3.0	0.65	16.5	0.39	10.0	0.07	1.8	3/8	9.5		500
FSD78-12-D				0.12	3.0	0.73	18.5	0.47	12.0	0.07	1.8	15/32	11.9		500
FSD78-18-D				0.12	3.0	0.96	24.5	0.71	18.0	0.07	1.8	17/32	13.5		500
FSD79-8-D	14 AWG	2.08	Yellow	0.14	3.6	0.57	14.5	0.31	8.0	0.08	2.1	5/8	15.9	CT-1002, CT-1123, ‡CT-1003	500
FSD80-8-D				0.17	4.2	0.59	15.0	0.31	8.0	0.09	2.3	7/8	22.2		500
FSD80-12-D	14 AWG	2.5	Blue	0.17	4.2	0.75	19.0	0.47	12.0	0.09	2.3	15/32	11.9	CT-1002, CT-1123, ‡CT-1003	500
FSD80-18-D				0.17	4.2	0.98	25.0	0.71	18.0	0.09	2.3	15/32	11.9		500
FSD81-10-D	12 AWG	4.0	Gray	0.19	4.8	0.69	17.5	0.39	10.0	0.11	2.9	5/8	15.9	CT-1002, CT-1123, ‡CT-1003	500
FSD81-12-C				0.19	4.8	0.79	20.0	0.47	12.0	0.11	2.9	7/8	22.2		100
FSD81-18-C				0.19	4.8	1.02	26.0	0.71	18.0	0.11	2.9	17/32	13.5		100
FSD82-12-C	10 AWG	6.0	Yellow	0.24	6.2	0.79	20.0	0.47	12.0	0.14	3.6	5/8	15.9	CT-1002, CT-1123, ‡CT-1003	100
FSD82-18-C				0.24	6.2	1.02	26.0	0.71	18.0	0.14	3.6	7/8	22.2		100
FSD83-12-C	8 AWG	10.0	Red	0.30	7.5	0.83	21.0	0.47	12.0	0.18	4.6	5/8	15.9	‡CT-1003, ‡CT-1004, CT-1123, CT-1104	100
FSD83-18-C				0.30	7.5	1.06	27.0	0.71	18.0	0.18	4.6	7/8	22.2		100

‡ Tool/part not a UL listed combination For crimping tool information see www.panduit.com/tools.

*Not UL listed with 22 AWG wire

**Dies used with CT-3001 or CT-3001/E Tool



Insulated Ferrules – Single Wire DIN End Sleeve (continued)

Part Number	Wire Size		Color Code	Max. Wire Insul. Dia.		Figure Dimensions						Wire Strip Length		Recommended Installation Tool	Std. Pkg. Qty.
	AWG	mm ²		In.	mm	L		P		ID		In.	mm		
FSD84-12-C	6 AWG	16.0	Blue	0.35	8.8	0.91	23.0	0.47	12.0	0.24	6.0	5/8	15.9	‡CT-1004, CT-1104	100
FSD84-18-C				0.35	8.8	1.14	29.0	0.71	18.0	0.24	6.0	7/8	22.2		100
FSD85-16-L	4 AWG	25.0	Yellow	0.43	11.0	1.14	29.0	0.63	16.0	0.30	7.5	5/8	15.9	CT-1005	50
FSD85-18-L				0.43	11.0	1.22	31.0	0.71	18.0	0.30	7.5	7/8	22.2		50
FSD85-22-L				0.43	11.0	1.38	35.0	0.87	22.0	0.30	7.5	1	25.4		50
FSD86-16-L	2 AWG	35.0	Red	0.49	12.5	1.18	30.0	0.63	16.0	0.33	8.5	3/4	19.1	CT-1006, **CD-2001-F87	50
FSD86-18-L				0.49	12.5	1.26	32.0	0.71	18.0	0.33	8.5	7/8	22.2		50
FSD86-25-L				0.49	12.5	1.54	39.0	0.98	25.0	0.33	8.5	1 1/8	28.6		50
FSD87-20-L	1 AWG-1/0	50.0	Blue	0.59	15.0	1.42	36.0	0.79	20.0	0.41	10.5	15/16	23.8	CT-1006, **CD-2001-F87	50
FSD87-25-Q				0.59	15.0	1.61	41.0	0.98	25.0	0.41	10.5	1 1/8	28.6		25
FSD89-20-Q	2/0	70.0	Yellow	0.63	16.0	1.46	37.0	0.79	20.0	0.50	12.7	15/16	23.8	CT-3001 (CD-2001-F89)	25
FSD89-27-Q				0.63	16.0	1.73	44.0	1.06	27.0	0.50	12.7	1 1/4	31.0		25
FSD90-25-Q	3/0	95.0	Red	0.71	18.0	1.73	44.0	0.98	25.0	0.58	14.7	1 1/8	28.6	CT-3001 (CD-2001-F90)	25
FSD91-27-Q	4/0-250 kcmil	120.0	Blue	0.83	21.1	1.89	48.0	1.06	27.0	0.66	16.7	1 1/4	31.0	CT-3001 (CD-2001-F91)	25
FSD92-32-Q	300 kcmil	150.0	Yellow	0.91	23.1	2.28	58.0	1.26	32.0	0.78	19.7	1 1/2	37.0	CT-3001 (CD-2001-F92)	25

‡Tool/part not a UL listed combination. For crimping tool information see www.panduit.com/tools.

*Not UL listed

**Dies used with CT-3001 or CT-3001/E Tool



Insulated Ferrules - Single Wire Expanded Sleeve

Type FSDX

- Expanded polypropylene sleeve: Provides a wider inside diameter to allow ferrules to fit easily over thick insulated wire, ideal for use in the U.S. and for use with flexible wire
- Funnel wire entry: Forms a guide for easy insertion of wire strands into the crimp barrel to enhance the installation process and improve productivity
- Colored sleeves: Allows visual color designation of wire size to aid in identification and quality inspection
- Meets UL 486F, CSA-C22.2 No. 291-14 and DIN 46228 Standards: Ensures ferrules meet both dimensional and performance requirements for improved safety and product compatibility



Part Number	Wire Size		Color Code	Max. Wire Insul. Dia.		Figure Dimensions						Wire Strip Length		Recommended Installation Tool	Std. Pkg. Qty.
	AWG	mm ²		In.	mm	L		P		ID		In.	mm		
FSDX75-8-D	22-20	0.5	White	0.12	3.0	0.53	13.5	0.32	8.0	0.04	1.1	15/32	11.91	CT-1002, CT-1003, CT-1123	500
FSDX76-8-D	18	0.75	Gray	0.14	3.4	0.55	14.0	0.32	8.0	0.05	1.3	15/32	11.91		500
FSDX77-8-D	18	1.0	Red	0.14	3.4	0.57	14.5	0.32	8.0	0.06	1.5	15/32	11.91		500
FSDX78-8-D	16	1.5	Black	0.15	3.8	0.57	14.5	0.32	8.0	0.07	1.8	15/32	11.91		500
FSDX84-12-C	6	16.0	Blue	0.37	9.5	.91	23.0	0.47	12.0	0.24	6.0	7/8	22.2	CT-1004, CT-1104	100

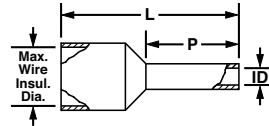
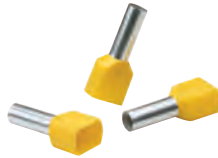
For crimping tool information see www.panduit.com/tools.



Insulated Ferrules – Twin Wire DIN End Sleeve

Type FTD

- Meets DIN standards for twin wire containment
- Polypropylene insulation housing conforms to DIN color requirements
- Funnel entry for faster insertion and lower installed cost
- Designed with a seamless barrel to contain loose wire strands for superior terminations
- Eases insertion of wire into terminal block
- Suitable for limited space panel applications
- Multiple pin lengths available for a variety of terminal blocks



Part Number	Wire Size		Color Code	Max. Wire Insul. Dia.		Figure Dimensions						Wire Strip Length		Recommended Installation Tool	Std. Pkg. Qty.
	AWG	mm ²		In.	mm	L		P		ID		In.	mm		
FTD75-8-D*	22-20 AWG	0.5	White	0.87	2.2	0.59	15.0	0.31	8.0	0.06	1.5	7/16	11.2	CT-1002, CT-1003, CT-1123	500
FTD76-8-D	18 AWG	0.75	Gray	0.09	2.4	0.59	15.0	0.31	8.0	0.07	1.8	7/16	11.2		500
FTD76-10-D				0.09	2.4	0.67	17.0	0.39	10.0	0.07	1.8	9/16	14.0		500
FTD77-8-D	1.0	Red	0.11	2.7	0.59	15.0	0.31	8.0	0.08	2.1	7/16	11.2	500		
FTD77-10-D			0.11	2.7	0.67	17.0	0.39	10.0	0.08	2.1	9/16	14.0	500		
FTD78-8-D	16 AWG	1.5	Black	0.12	3.0	0.63	16.0	0.31	8.0	0.09	2.3	7/16	11.2		500
FTD78-12-D				0.12	3.0	0.79	20.0	0.47	12.0	0.09	2.3	21/32	16.8		500
FTD80-10-TL	14 AWG	2.5	Blue	0.15	3.7	0.73	18.5	0.39	10.0	0.11	2.9	9/16	14.0		250
FTD80-13-TL				0.15	3.7	0.85	21.5	0.51	13.0	0.11	2.9	21/32	16.2		250
FTD81-12-C+	12 AWG	4.0	Gray	0.17	4.3	0.91	23.0	0.47	12.0	0.15	3.8	23/32	16.8		100
FTD82-14-C+	10 AWG	6.0	Yellow	0.19	4.8	0.98	25.0	0.55	14.0	0.18	4.6	21/32	19.6	CT-1003, CT-1004, CT-1104	100
FTD83-14-C	8 AWG	10.0	Red	0.28	7.1	1.02	26.0	0.55	14.0	0.26	6.6	3/4	19.0	CT-1005	100
FTD84-16-C	6 AWG	16.0	Blue	0.35	8.9	1.22	31.0	0.63	16.0	0.33	8.4	13/16	21.0		100

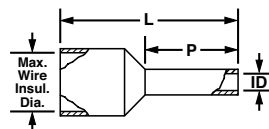
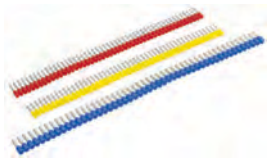
*UL listed with 20 AWG only, UL486F scope is 1/0-20AWG. White is DIN color for 20 AWG
 +Tool/Part is not a UL listed combination. For crimping tool information see www.panduit.com/tools.



Insulated Ferrules on Strips – Single Wire

Type FSD

- Polypropylene insulation housing available in DIN standard colors in strips of 50
- Continuously molded design provides consistent placement of ferrules in tool to ensure fast, reliable terminations
- Available in #20 – 14 AWG featuring a seamless barrel design to contain loose wire strands for superior terminations
- Designed for use with the Semiautomatic Ferrule Crimping Tool CT-1000 for medium volume applications



Part Number	Wire Size		Color Code	Max. Wire Insul. Dia.		Figure Dimensions						Wire Strip Length		Recommended Installation Tool	Std. Pkg. Qty.	
	AWG	mm ²		In.	mm	L		P		ID		In.	mm			
DIN End Sleeves																
FSD75-8-DSL10	20 AWG	0.50	White	0.10	2.6	0.60	15.2	0.31	8.0	0.04	1.0	13/32	10.0	CT-1000	500	
FSD76-8-DSL8	18 AWG	0.75	Gray	0.11	2.7	0.60	15.2	0.31	8.0	0.06	1.5	13/32	10.0		500	
FSD77-8-DSL2	1.00	Red	0.12	3.0	0.60	15.2	0.31	8.0	0.07	1.8	13/32	10.0	500			
FSD78-8-DSL0	16 AWG	1.50	Black	0.13	3.2	0.60	15.2	0.31	8.0	0.09	2.3	13/32	10.0		500	
FSD80-8-DSL6	14 AWG	2.50	Blue	0.16	4.0	0.60	15.2	0.31	8.0	0.09	2.3	13/32	10.0		500	

For crimping tool information see www.panduit.com/tools.