Ferrule with Expanded Sleeves

PANDUIT®
SPECIFICATION SHEET

specifications

Ferrules with expanded sleeves shall be designed with a seamless tin plated copper barrel and be suitable for wires with thick insulation to provide consistent, reliable terminations in terminal block and panel building applications. Ferrules with expanded sleeves shall meet UL 486F, CSA-C22.2 No. 291-14 and DIN 46228 requirements for color and single wire containment. Ferrules with expanded sleeves shall be available in a range of wire sizes. Ferrules with expanded sleeves shall be installed with controlled cycle tools for quality crimps.

technical information

Industry standards:	Meets UL 486F, CSA-C22.2 No. 291-14 and DIN 46228 standards*
Fiber compatibility:	221°F (105°C)

* UL 486F for 1/0-20AWG

key features and benefits

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
Seamless crimp barrel design	Provides a consistent and reliable installation
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

* UL 486F for 1/0-20AWG

applications

Ferrules with expanded sleeves are designed to ensure superior performance in panel building and terminal block applications requiring the use of wires with thick insulation.

Wires with thick insulation include wires with flexible insulation. Panduit ferrules provide a high quality termination solution that contributes to the overall reliability and productivity of the physical infrastructure.

Related Products

Ferrules with Short Circuit Protection Sleeves (FSDX)

Sleeve color standard:	DIN
Wire range:	16 to 6 AWG (1.5 to 16.0mm²)
Pin length (varies):	0.31" to 0.47" (8.0 to 12.0mm)

Ferrules with Sleeves

Sleeve color standard:	DIN
Wire range:	26 AWG to 300 kcmil (0.14 to 150.0mm²)
Pin length (varies):	0.24" to 1.26" (6.0 to 32.0mm)

Ferrules with Sleeves for Twin Wires (FTD)

Sleeve color standard:	DIN
Wire range:	22 to 6 AWG (0.5 to 16.0 mm²)
Pin length (varies):	0.31" to 0.63" (8.0 to 16.0mm)

Ferrules without Sleeves (F)

Sleeve color standard:	N/A
Wire range:	22 AWG to 500 kcmil (0.25 to 240.0mm²)
Pin length (varies):	0.20" to 1.57" (5.0 to 40.0mm)

Ferrules with Sleeves on Strips (FSD)

Sleeve color standard:	DIN
Wire range:	22 to 14 AWG (0.50 to 2.5 mm²)
Pin length:	0.31" (8.0mm)

Ferrules with Sleeves on Reels (FSD)

Sleeve color standard:	DIN
Wire range:	24 to 14 AWG (0.25 to 2.5mm²)
Pin length:	0.31" (8.0mm)

# Ferrule with Expanded Sleeves

ordering information

Part Number	Wire Size AWG	Wire Size mm²	Color Code	Max. Wire Insul. Dia (In.)	Max. Wire Insul. Dia mm	Length (In.)	Length mm	Pin Length (In.)	Pin Length mm	Inside Diameter (In.)	Inside Diameter mm	Wire Strip Length (In.)	Wire Strip Length mm	Tool	Std. Pkg. Qty.
FSDX75-8-D	20 AWG	0.50	White	0.12	3.0	0.53	13.5	0.31	8.0	0.04	1.1	15/32	11.9	CT-1002, CT-1003, CT-1123	500
FSDX76-8-D	20 AWG	0.75	Gray	0.14	3.4	0.55	14.0	0.31	8.0	0.05	1.3	15/32	11.9		500
FSDX77-8-D	18 AWG	1.00	Red	0.14	3.4	0.57	14.5	0.31	8.0	0.06	1.5	15/32	11.9		500
FSDX78-8-D	16 AWG	1.50	Black	0.15	3.8	0.57	14.5	0.31	8.0	0.07	1.8	15/32	11.9		500
FSDX84-12-C	6 AWG	16.00	Blue	0.37	9.5	0.91	23.0	0.47	12.0	0.24	6.0	7/8	22.2	CT-1004, CT-1104	100

recommended installation tools

Part Number	Part Description	Std. Pkg. Qty.
Contour Crimp™ Controlled Cycle Hand Operated Crimping Tool		
CT-1002	Controlled cycle crimp tool with trapezoid profile for #26 – 10 AWG (0.14 – 6.0mm²) insulated and non-insulated single wire ferrules and #22 – 12 AWG (0.50 – 4.0mm²) insulated twin wire ferrules.	1
CT-1004	Controlled cycle crimp tool with trapezoid profile for #8 – 6 AWG (10.0 – 16.0mm²) insulated and non-insulated ferrules and #10 AWG (6.0mm²) insulated twin wire ferrules.	1
CT-1104	Controlled cycle crimp tool with square profile for #8 – 6 AWG (10.0 – 16.0mm²) insulated and non-insulated ferrules and #10 AWG (6.0mm²) insulated twin wire ferrules.	1
CT-1123	Controlled cycle crimp tool with square profile for #26 – 8 AWG (0.14 – 10.0mm²) insulated and non-insulated ferrules and #22 – 12 AWG (0.50 – 4.0mm²) insulated twin wire ferrules.	1

other control panel products available
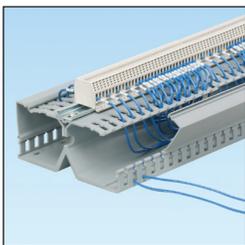
PanelMax™ DIN Rail Wiring Duct
Innovative wire management solution that maximizes space utilization within industrial enclosures
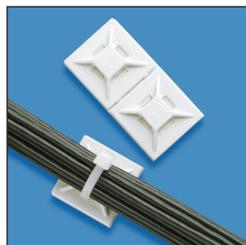
Cable Ties and Mounts
Reliably secure wiring to panel where holes cannot be drilled

Spiral Wrap
Offers abrasion protection for wires, cables, hoses and tubing

LS9Q Hand-Held Printer
Thermal transfer printer with QWERTY keyboard design

Patch Cords
Available for a variety of categories, keyed, shielded, and in a variety of colors and lengths to provide additional design flexibility

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

For more information
Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300 and reference TMSP02

PANDUIT®