

Flame Resistant Premium Grade Nylon Insulated Right Angle Disconnects

PANDUIT®
APPLICATION NOTE

Applications:

Consumer products that operate at elevated temperatures such as coffee machines, broilers, irons and hair dryers.

Industrial and commercial products that operate at elevated temperatures such as HVAC systems, furnaces, environmental chambers and heat-sealing equipment.

Customer Concern:

A number of European manufacturers of coffee makers for consumer market needed a right angle disconnect to pass the new European Standard, (The Household and Similar Electrical Appliances-Safety-General Requirements, IEC60335-1). This standard includes the fire hazard test (Glow-Wire Flammability Test Method for End-Products, IEC 60695-2-11), which standard right angle disconnects were unable to pass. A terminal passes this test when flames introduced directly to the insulation material self-extinguish within 30 seconds after removal of the glow-wire.

Panduit Solution:

Fully Insulated Flame Resistant Premium Grade Nylon Right Angle Female Disconnect

Panduit modified the insulation of the right angle female disconnects to a premium grade nylon, which met customer flammability requirements. Testing was conducted by an independent lab, which verified compliance with the IEC European appliance standards and regulations.

The premium grade nylon is a non-hygroscopic grade material and has improved chemical and UV resistance as well as improved thermal stability. The part and stamping dimensions were unchanged, thereby, eliminating any need for a change to the crimping dies or applicators. Solutions are available for 0.250" (6.3mm) and 0.205"/0.187" (5.2mm/4.8mm) wide male tabs.

Application Considerations:

No restrictions to product applications



Coffee Machine Application, which must meet the new IEC European appliance standards and regulations



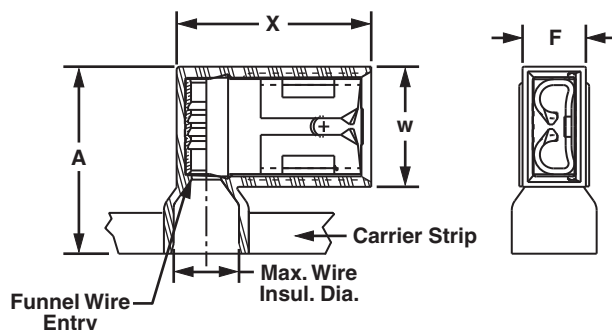
Standard Nylon Insulated Right Angle Disconnect



Flame Resistant Premium Grade Nylon Insulated Right Angle Disconnect, Meets Requirements of IEC 60695-2-11

Flame Resistant Premium Grade Nylon Insulated Right Angle Disconnects

Reel-Fed



Part Number	Tab Size In. (mm)	Wire Range AWG (mm ²)	Color	Max. Wire Insul. Dia. In. (mm)	Dimensions In. (mm)				Tool Chart – Recommended Presses: CP-861, CP-871 CA-800EZ, CA-800/CA9 Applicator Die Inserts
					A ±0.03	W ±0.01	X ±0.03	F ±0.02	
DPFR18250FIB-KD	0.250 x 0.032 (6.3 x 0.08)	22 – 18 (0.38 – 0.75)	Red	0.178 (4.6)	0.57 (14.48)	0.37 (9.40)	0.60 (15.24)	0.21 (5.33)	CD-800-9, CD9-9C
DPFR18205FIB-KD	0.205/0.187 x 0.032 (5.2/4.8 x 0.08)	22 – 18 (0.38 – 0.75)	Red	0.178 (4.6)	0.57 (14.48)	0.37 (9.40)	0.60 (15.24)	0.21 (5.33)	

Notes:

1. Brass thickness 0.018 (.457) tin-plated
2. For stranded copper wire only
3. Housing: premium grade nylon
4. Curl slots: DPFR18205FIB-KD-only.
5. Wire strip length: 11/32 ^{+1/32}₀ (8.7 ^{+0.8}₋₀)
6. All materials meet the material restrictions of RoHS (European directive 2002/95/EC)
7. Part numbers have passed IEC glow wire test 60695-2-11, completed by independent test lab Electro Suisse
8. Dimensions are in inches (mm)
9. Package qty: KD = 1500 pcs./Reel

WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT CANADA
Markham, Ontario
cs-cdn@panduit.com
Phone: 800.777.3300

PANDUIT EUROPE LTD.
London, UK
cs-emea@panduit.com
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
Republic of Singapore
cs-ap@panduit.com
Phone: 65.6305.7575

PANDUIT JAPAN
Tokyo, Japan
cs-japan@panduit.com
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA
Guadalajara, Mexico
cs-la@panduit.com
Phone: 52.33.3777.6000

PANDUIT AUSTRALIA PTY. LTD.
Victoria, Australia
cs-aus@panduit.com
Phone: 61.3.9794.9020

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

PANDUIT®

For more information
Visit us at www.panduit.com
Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300

©2013 Panduit Corp.
ALL RIGHTS RESERVED.
TMAN12--WW-ENG
replaces WW-TMAN04
12/2013