# **Cable Spacer**



# specifications

Cable spacer shall be used with approved cable ties at intervals of not greater than 8 inches (203.2mm) to maintain separation between wires in order to prevent relative motion between harnesses in critical applications. The spacer design shall provide smooth, rounded edges in order to not accelerate abrasion between itself and a wire bundle. The spacer shall maintain a distance between parallel wires of greater than 0.5 inch (12.70mm) or alternatively 0.3 inch (7.62mm), and shall maintain a distance between perpendicular wires at greater than 0.3 inch (7.62mm). The cable spacer shall weigh less than 0.75 gram.



## technical information

Material:	Polyetheretherketone (PEEK)					
Application temperature:	-76°F to 500°F (-60°C to 260°C)					
Color specifications:	Light brown					
Military specifications:	Material meets MIL specification MIL-P-46183; approved for use by the Department of Defense					
Halogen-free:	Yes					
Environmental compliance:	Compliant per European Directive 2002/95/EC on the Restriction of Hazardous Substances (RoHS)					
Oxygen index:	35					
Radiation resistance:	1 x 10° Rads					

# key features and benefits

Multi-functional	Combines the functionality of three different products into one easy-to-use device that maintains reliable separation between wires; reduces inventory SKU's and simplifies installation; reduces raw material stocking requirements			
Abrasion resistant	Designed to minimize relative motion and abrasion between adjacent wire harnesses and between itself and wiring to reduce long-term wiring degradation; complies with major industry regulations and guidelines which aids acceptance by compliance engineers			
Strong and light-weight	Optimized to provide exceptional strength in a small footprint and very light-weight configuration is preferred for aerospace wire management applications			

# applications

All wires and harnesses installed in aircraft must be securely fastened to prevent relative motion between harnesses that can cause abrasion resulting in potential failure of the electrical system. The Panduit cable spacer minimizes relative motion and abrasion between wires by using a specified cable tie to secure two adjacent wires or wire bundles.

The spacer also incorporates best practices in design and manufacturing to minimize any potential abrasion caused by contact between the spacer and the wire which it secures. It can be used in multiple orientations to address the majority of spacing needs in pressurized or unpressurized areas of the aircraft.

### Cable Spacer

Use with Miniature, Intermediate, and Standard cross section cable ties:

CSMS-D71

**Related Products** 

#### Pan-Ty ® Cable Ties - PEEK Material

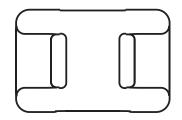
Max. bundle diameter

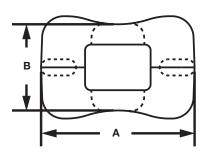
**0.87 In. (22mm):** PLT1M-C71 **1.38 In. (35mm):** PLT1.5M-C71 **1.88 In. (48mm):** PLT2S-C71

### Contour-Ty® Cable Ties – Heat Stabilized Nylon 6.6 Material

wax. bundle diameter								
1.00 In. (25mm):	CBR1M-M30							
1.50 In. (38mm):	CBR1.5I-M30							
2.00 In. (51mm):	CBR2S-M30							
3.00 In. (76mm):	CBR3S-M30							
4.00 In. (102mm):	CBR4S-M30							

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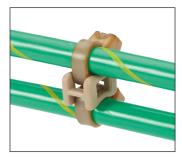


### sizes and dimensions

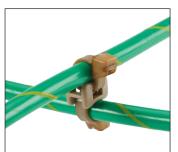
	Used with				Mounting	Length A		Width B	
Part Number	Cable Ties <sup>‡</sup>	Material	Color	Environment	Method	ln.	mm	ln.	mm
CSMS-D71	M, I, S	PEEK	Light Brown	Indoors	Cable Ties	0.57	14.5	0.38	9.7

‡Cable tie cross section sizes: M = Miniature, I = Intermediate, and S = Standard.

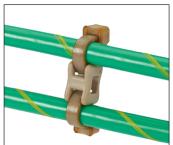
This multifunctional spacer can be used in a variety of configurations to suit the appropriate application.



Shorter spacing, parallel



Shorter spacing, perpendicular



Longer spacing, parallel



Longer spacing with one cable tie, parallel

### **WORLDWIDE SUBSIDIARIES AND SALES OFFICES**

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