PANDUIT®

# **Product Bulletin**

## High Temperature Polyetheretherketone (PEEK) Panduit<sup>®</sup> Cable Ties and Mount

PEEK Cable Ties and mount are ideal for use in high temperature and harsh chemical environments. PEEK is a dimensionally stable material that offers an excellent tensile rating with an operating temperature up to 500°F (260°C). It is halogen free, generating low smoke and toxicity upon burn, contributing to improved workplace safety. It has excellent chemical resistance to almost all organic and inorganic chemicals and is extremely resistant to high levels of gamma radiation for a long-term bundling solution. PEEK cable ties and mount can be used in a broad range of applications and environments including Oil and Gas, Automotive and Aerospace.

### Key Features

Benefits

| High Temperature Polyetheretherketone<br>(PEEK) material | Operating temperature range up to 500°F (260°C); maintains good tensile strength in high temperature environments   |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|
| Chemical resistant material                              | Withstands attack from most organic and inorganic chemicals; able to be<br>used in harsh chemical environments, providing a long-term bundling solutio  |  |  |  |  |  |  |
| Gamma radiation resistant<br>material                    | Maintains mechanical properties when exposed to high levels of gamma radiation; maintains tensile properties, providing longer useful life<br>Non-metallic material provides an alternative to conductive fasteners; safe to use where a non-conductive material is specified and/or required |  |  |  |  |  |  |
| Good electrical isolation<br>properties                  |   |  |  |  |  |  |  |
| Low water absorption                                     | Non-hygroscopic material provides excellent moisture resistance; won't absorb water in humid/steam environments; maintains dimensional stability and tensile strength   |  |  |  |  |  |  |
| Cable Tie  |   |  |  |  |  |  |  |
| Cable tie design   | Threads easily and installs quickly compared to lacing cord, which requires time consuming, hand-tied knots that can lead to repetitive strain injuries   |  |  |  |  |  |  |
| Curved tip – applicable sizes                            | Easy to pick up from flat surfaces; allows faster threading   |  |  |  |  |  |  |
| Mount  |   |  |  |  |  |  |  |
| Mount cradle design                                      | Provides maximum stability for the cable bundle   |  |  |  |  |  |  |
| Low profile design                                       | Keeps bundle close to mounting surface where overhead space is limited  |  |  |  |  |  |  |

#### Technical Information

| Oxygen index               | 35                          |  |  |  |  |  |  |
|----------------------------|-----------------------------|--|--|--|--|--|--|
| Radiation resistance       | 1 x 10º Rads                |  |  |  |  |  |  |
| Continuous use temperature | -76° – 500°F (-60° – 260°C) |  |  |  |  |  |  |
| Halogen free               | Yes                         |  |  |  |  |  |  |
| RoHS compliant             | Yes                         |  |  |  |  |  |  |
| Military specification     | Yes                         |  |  |  |  |  |  |

#### Applications

Applications for PEEK product include, but are not limited to, the following:

- Drilling down-hole electronics
- Nuclear power plants
- Vacuum ovens for optics
- Commercial cooking equipment
- High temperature lighting

- Industrial ovens
- Transformers and transducers
- Wire harnesses for harsh environments
- Chemical manufacturing
- Transportation

### Ordering Information

#### Cable Ties

| Part Number   | Length<br>In.<br>(mm) | Width<br>In.<br>(mm) | Thickness<br>In.<br>(mm) | Head<br>Height<br>In.<br>(mm) | Head<br>Width<br>In.<br>(mm) | Max.<br>Bundle<br>Diameter<br>In.<br>(mm) | Min. Loop<br>Tensile<br>Strength<br>Lbs.<br>(N) | Recommended<br>Tools  | Std.<br>Pkg.<br>Qty. | Std.<br>Ctn.<br>Qty. |
|---------------|-----------------------|----------------------|--------------------------|-------------------------------|------------------------------|---|---|---|----------------------|----------------------|
| Miniature Cro | ss Sectio             | on                   |                          |                               |                              |   |   |   |                      |                      |
| PLT1M-C71     | 4.0<br>(101.6)        | 0.101<br>(2.6)       | 0.048<br>(1.2)           | 0.130<br>(3.3)                | 0.190<br>(4.8)               | 0.87<br>(22)                              | 35<br>(156)                                     | <u>GTS-E,</u><br><u>GS2B-E, PTS</u>                               | 100                  | 1000                 |
| PLT1.5M-C71   | 5.90<br>(149.9)       | 0.101<br>(2.6)       |                          | 0.130<br>(3.3)                | 0.190<br>(4.8)               | 1.38<br>(35)                              | _   |   | 100                  | 1000                 |
| Standard Cros | ss Sectio             | n (Straig            | ht Tip)                  |                               |                              |   |   |   |                      |                      |
| PLT2S-C71     | 7.4<br>(188)          | 0.190<br>(4.8)       | 0.055<br>(1.4)           | 0.240<br>(6.1)                | 0.320<br>(8.1)               | 1.88<br>(48)                              | 150<br>(668)                                    | <u>GTS-E, GTH-E,</u><br><u>GS2B-E, GS4H-E,</u><br><u>PTS, PTH</u> | 100                  | 1000                 |

#### Cable Tie Mount

| Part Number | Used With<br>Cable Ties | A<br>Length<br>In.<br>(mm) | B<br>Width<br>In.<br>(mm) | C<br>Height<br>In.<br>(mm) | Counterbore<br>Diameter<br>In.<br>(mm) | Mounting<br>Method | Std.<br>Pkg.<br>Qty.* | Std.<br>Ctn.<br>Qty.* | - |
|-------------|-------------------------|----------------------------|---------------------------|----------------------------|--|--------------------|-----------------------|-----------------------|---|
| TM2S8-C71   | Min.,<br>Std.           | 0.636<br>(16.2)            | 0.427<br>(10.8)           | 0.278<br>(7.1)             | 0.335<br>(8.5)                         | #8 (M4)<br>screw   | 100                   | 500                   |   |

#### **Related products**

|  | Part Numbers                              | Used with<br>PEEK<br>Cable Ties | Description   | Std.<br>Pkg.<br>Qty. |  |  |  |  |  |  |
|--|---|---------------------------------|---|----------------------|--|--|--|--|--|--|
|  | Tool Controlled Tension and Cut-Off Tools |                                 |   |                      |  |  |  |  |  |  |
|  | GTS-E, GS2B-E                             | Miniature,<br>Standard          | Tool controlled tension tools consistently provide<br>flush tie cut-offs to speed installation. | 1                    |  |  |  |  |  |  |
|  | GTH-E, GS4H-E                             | Standard                        |   | 1                    |  |  |  |  |  |  |

\*Order number of pieces required, in multiples of standard package quantity.

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