# FIREFLY™

# PCI EXPRESS® — 4.0 SOLUTIONS

## PCIe®-OVER-FIBER FLYOVER®

| PCUO | WIDTH | DATA RATE | CABLE LENGTH | 0 | HEAT SINK | 1 | FIBER TYPE | END 2 OPTIONS |
|---|---|---|---|---|---|---|---|---|
| **PCUO** **Mates with:** UEC5, UCC8, OPA | **–04** = x4 Lanes  **–08** = x8 Lanes | **–G4** = 4.0 Speed | **–"XXX"** = Overall Length in Centimeters | | **–1** = Flat  **–4** = PCIe® Pin-fin | | **–7** = Black loose tube with boot  **–8** = Black loose tube | (–04 width requires –01 option; –08 width requires –21 option)  **–01/–21** = MTP® Male |

### FEATURES

- PCIe® 4.0 x4, scalable to x8 and x16 widths
- Duplex auxiliary signals allow both transparent and non-transparent bridging
- High-performance signal quality with BER better than $1E^{-12}$
- Enables links up to 100 m
- Allows nontraditional FPGA/ASIC end points
- Standard temperature range 0 °C to +70 °C

**CLASS 1 LASER PRODUCT per IEC 60825-1 Ed. 3 (2014)**



(20.0) .79
(12.17) .479
CABLE LENGTH
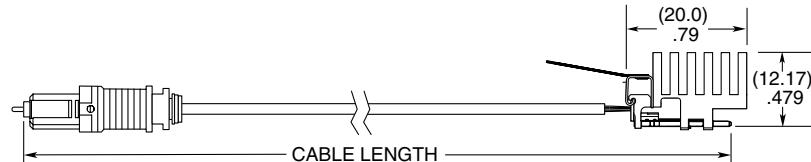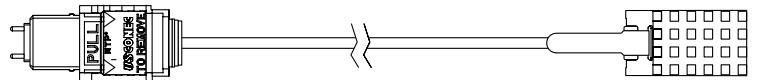
**PCUO-04-G4-XXX-0-4-1-8-01 SHOWN**

View complete specifications at: **samtec.com?PCUO**

### OTHER SOLUTIONS

PCUO with G3 speeds available. For more information, visit **samtec.com?PCUO**

## EXTENDED TEMP PCIe®-OVER-FIBER

| PTUO | WIDTH | DATA RATE | CABLE LENGTH | 0 | HEAT SINK | 1 | FIBER TYPE | END 2 OPTIONS |
|---|---|---|---|---|---|---|---|---|
| **PTUO** **Mates with:** UEC5, UCC8, OPA | **–04** = x4 Lanes  **–08** = x8 Lanes | **–G3** = 3.0 Speed | **–"XXX"** = Overall Length in Centimeters | | **–1** = Flat  **–2** = Pin-fin  **–3** =Flat with groove  **–4** = PCIe® Pin-fin | | **–7** = Black loose tube with boot  **–8** = Black loose tube | (–04 width requires –0X option; –08 width requires –2X option)  **–01/–21** = MTP® Male  **–02/–22** = MTP® Female  **–0A/–2A** = VITA™ 66.1/66.4 Ready  **–0C/–2C** = MT38999 Male |

### FEATURES

- Extended temperature range from -40 °C to +85 °C
- PCIe® 3.0 x4, scalable to x8 and x16 widths
- Duplex auxiliary signals allow both transparent and non-transparent bridging
- High-performance signal quality with BER better than $1E^{-12}$
- Enables links up to 100 m
- Allows nontraditional FPGA/ASIC end points
- Additional heat sink and end options available
- PCIe® 4.0 version in development

**CLASS 1 LASER PRODUCT per IEC 60825-1 Ed. 3 (2014)**
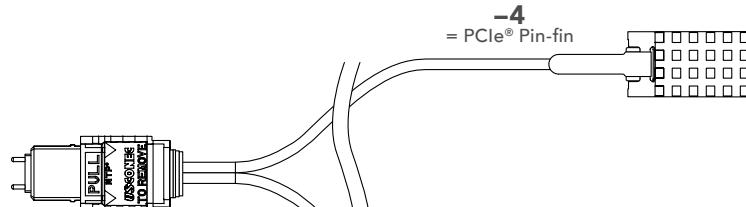


**PTUO-08-G3-XXX-0-4-1-7-21 SHOWN**

(20.0) .79
(12.17) .479
CABLE LENGTH
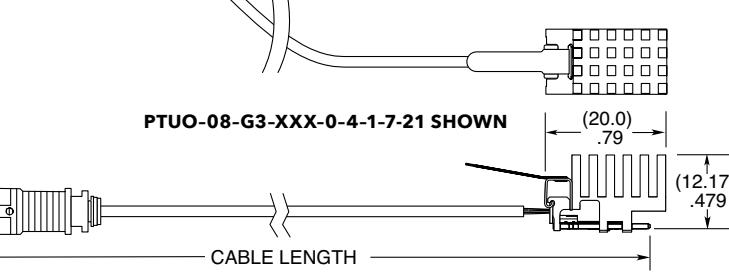
**Notes:**
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Some lengths, styles and options are non-standard, non-returnable.

View complete specifications at: **samtec.com?PTUO**

Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.