

**M98086 Fiber - Tight Buffer Interconnect Cables - Plenum (OFNP)**

For more Information  
please call

1-800-Belden1

**Description:**

Belden's® new interconnect cordage has been updated with Gigabit Ethernet grade fiber to handle emerging Gigabit Ethernet light sources and expanded bandwidth requirements as well as conventional LED light sources.

**Physical Characteristics (Overall)**

Fiber Type:	62.5/125/900 Micron
Number of Fibers:	1
Core Diameter:	62.5 +/- 2.5
Core Non-Circularity:	5% Maximum
Clad Diameter:	125 +/- 2
Clad Non-Circularity:	2% Maximum
Primary Coating Material:	Acrylate
Primary Coating Diameter:	245 +/- 10
Secondary Coating Material:	Plenum Grade PVC - Polyvinyl Chloride
Secondary Coating Diameter:	900 +/- 50

**Fiber Color Code Chart:**

Color
Slate

Core-clad Offset:	3 Microns Maximum
-------------------	-------------------

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material
Plenum Grade PVC - Polyvinyl Chloride

Outer Jacket Color:	Orange
---------------------	--------

**Strength Member**

Strength Member Material:	Aramid Yarn
---------------------------	-------------

**Overall Cabling**

Overall Nominal Diameter:	0.114 in.
---------------------------	-----------

**Mechanical Characteristics (Overall)**

Storage Temperature Range:	-40°C To +70°C
Operating Temperature Range:	-20°C To +70°C
Bulk Cable Weight:	6.300 lbs/1000 ft.
Min. Bend Radius (Install)/Minor Axis:	2 in.
Min. Bend Radius for Long Term Application:	1 in.
Max. Load for Installation:	106 lbs.
Max. Load for Long Term Application:	35 lbs.

**M98086 Fiber - Tight Buffer Interconnect Cables - Plenum (OFNP)**

Proof Test:	100 kpsi
-------------	----------

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	OFNP
CEC/C(UL) Specification:	OFN
IEEE Specification:	802.3Z
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2006
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Telecommunications Standards:	568B

**Flame Test**

C(UL) Flame Test:	FT6
-------------------	-----

**Suitability**

Suitability - Indoor:	Yes
Suitability - Outdoor:	No

**Plenum/Non-Plenum**

Plenum (Y/N):	Yes
---------------	-----

**Optical Characteristics (Overall)**

Maximum Attenuation @ 850nm:	3.5 dB/km
Maximum Attenuation @ 1300nm:	1.25 dB/km
Point Loss @ 850nm & 1300nm:	0.2
Minimum Bandwidth @ 850nm:	200 MHz*km
Minimum Bandwidth @ 1300nm:	500 MHz*km
Refractive Index @ 850nm:	1.496
Refractive Index @ 1300nm:	1.491
Numerical Aperture:	.275
Maximum Gigabit Ethernet Length @ 850nm:	300
Maximum Gigabit Ethernet Length @ 1300nm:	550

**Reference (Overall)**

Previous Part Number:	PTSP601
-----------------------	---------

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
--------	-------	-------------	-------	-------	-----------

Revision Number: 2    Revision Date: 05-14-2007

© 2010 Belden, Inc.  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not

---

**M98086 Fiber - Tight Buffer Interconnect Cables - Plenum (OFNP)**

ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.