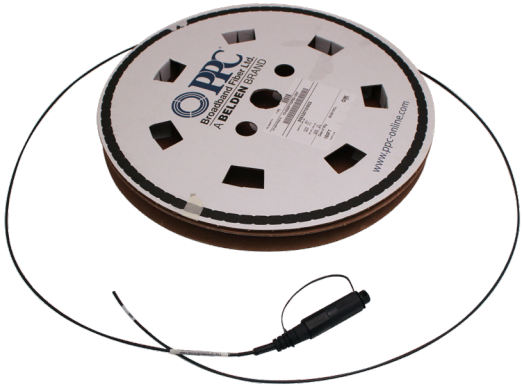
Hardened Fiber Optic Connector (HFOC) Assembly

Features & Benefits

- Suitable for outdoor use
- Pre-terminated; no field splicing/mechanical termination
- Guaranteed insertion loss/return loss with certification
- Industry standard connector format
- Fire resistant and LSZH materials available
- Features Miniflex® grooving to increase flexibility/bend radius
- Ultra light-weight
- High crush resistance
- Low friction outer sheath
- Inherent kink resistance
- Small round concentric design
- Miniflex/Balistix™ connector installs inside microducts with bores as small as 5.5 mm (9/64 in) I.D.
- QuikPush® assembly enables SC compatibility



Specifications

- Tested to Telcordia GR 3120
- ITU-T: G.657, & G.651
- NEC: UL 1651 – Field assembled cable
- IEC: 60794-1-2, 60332-2-2
- REACH & RoHS compliant

HFOC Assembly

QuikPush SC Assembly

Overview

PPC's Hardened Fiber Optic Connector (HFOC) assembly offers a streamlined and efficient connection point for last-mile fiber deployments. The HFOC is suitable for outdoor use, and is designed to provide superior protection against harsh environments, ensuring consistent data delivery to subscribers.

When you pair the HFOC with PPC's Miniflex fiber cable and QuikPush® cable assembly, you get a flexible, pushable pre-terminated fiber optic drop solution for reliable FTTX deployments.

PPC's Miniflex fiber cable can be installed easily and quickly by pushing, pulling or blowing. PPC's Balistix pushable connectors enable the pre-connectorized fiber cable to be installed through microducts and small holes that are typical of most FTTX scenarios.

Technical Data | Cable Material Information

Fiber Count	Weight	O.D.	Sheath Thickness	Tension Strength	Impact Resistance	Minimum Bend Radius	
						Installation	Operation
(250µm or 900µm)	*kg/km (lbs/kft)*	*mm (in)*	*mm (in)*	*(N)*	*(J)*	*mm (in)*	*mm (in)*
1, 2, 4, 6, 8 & 12*	8 (5.4)	3.0 (.1)	0.8 (.03)	100	2	30 (1.2)	15 (.6)
**only the first fiber is terminated, all other fibers remain dark*							
Material	**Applications**	**Fire Rating**		**Color**	**Operating Temp**	**Crush**	
PBT	Indoor/Outdoor	UL 1651 OFNG General Use & OFNR. Riser IEC 60332-2-2		Black	-40°C to 80°C (-40°F to 176°F)	950N	
Tone-able cables may use a 33 AWG Copper Clad Toning Wire							

This product may be protected by one or more patents • For further information, please visit: www.ppc-online.com/patents

Hardened Fiber Optic Connector (HFOC) Assembly

PPC® A BELDEN BRAND

Technical Data | Transmission Performance Specification

Item	Single-Mode	Single-Mode
Specification	G657A1	G657A2
Attenuation (850 / 1300 nm)	n/a	n/a
Attenuation (1310 / 1550 nm)	0.4/0.3 dB/km	0.4/0.3 dB/km
Attenuation at 1625 nm	0.4 dB/km	0.4 dB/km
Refractive Index at 1310nm, 1550nm	1.467, 1.468	1.467, 1.468
Refractive Index at 850nm, 1300nm	n/a	n/a
Proof test	0.69 GPa (100 kpsi), 1% min.	0.69 GPa (100 kpsi), 1% min.
Cladding diameter	125 ± 0.7µm	125 ± 0.7µm
Coated diameter	235µm to 245µm	235µm to 245µm
Core/Cladding concentricity error	≤ 0.5µm	≤ 0.5µm
Coating concentricity error	≤ 12µm	≤ 12µm
Macro bend loss	(1550 nm)	
10 turns at 50mm diameter	≤ 0.01 dB	≤ 0.01 dB
10 turns at 30mm diameter	≤ 0.25 dB	≤ 0.03 dB
1 turn at 20mm diameter	≤ 0.75 dB	≤ 0.1 dB
1 turn at 15mm diameter	n/a	≤ 0.5 dB
Temp. range (operation) -60°C to 85°C (-76°F to 185°F)	max attenuation change ≤ 0.05 dB/km	max attenuation change ≤ 0.05 dB/km
Coating Strip Force	1.3 to 8.9 N	1.3 to 8.9 N

Ordering Information: Code Builder

Example	TN	1	3	PB	B	9	2	NC	O5	0150	F	-	TW
Character	1	2	3	4	5	6	7	8	9	10	11		12

1. Product Type
TN = Terminated Cable

2. Number of Fibers
1
**only first fiber is terminated*

3. Cable Diameter
3 = 3 mm

4. Cable Material
PB = PBT
RI = Riser

5. Color
B = Black
W = White

6. Fiber Diameter
2 = 250 um
9 = 900 um

7. Fiber Type
1 = A1
2 = A2

8. Outside Connector
B3 = SC Balistix™ UPC
B5 = SC Balistix™ APC
NC = No Connector
O3 = HFOC UPC
O5 = HFOC APC
S3 = SC UPC
S5 = SC APC

9. Inside Connector
O3 = HFOC UPC
O5 = HFOC APC
NC = No Connector

10. Length
XXXX *(specify length)*

11. Unit of Measure
F = Feet
M = Meters

12. Add Ons
Blank = None
TW = Add Toning Wire

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