

# QuikPush® Nano Cable Assembly

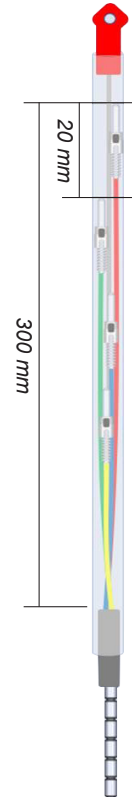


## Features & Benefits

- ITU-T G657A1 & G657A2 optical fiber
- UL Riser rated and CPR certified
- Complies with IEC 60794-1-2
- Pre-terminated – so no field splicing/mechanical termination
- Guaranteed insertion loss/return loss with certification
- Installs inside microducts with bores as small as 4mm I.D.
- Industry standard LC connector format
- Singlemode UPC and APC options
- Features Miniflex® bend limiting technology
- Ultra light-weight
- High crush resistance
- Low friction outer sheath
- Inherent kink resistance
- Small round concentric design
- Supplied with Pulling Eye
- Up to 12 LC connectors

## Applications

- FTTH / FTTX indoor
- MDU and Rural broadband single-dwelling units (SDU)
- FTTP and campus networks
- Telecoms
- Rural Broadband
- DAS/FTTA



## Overview

PPC's Quikpush® Nano cable assembly is a flexible, pushable pre-terminated fiber optic solution that utilizes our Miniflex fiber cable and allows for connectorization on one or both ends with multiple LC connectors. Quikpush® Nano has several advantages over alternative solutions for fast and reliable FTTx deployments.

### Miniflex Cable

As small as 2.2 mm outer diameter, Miniflex cable is one of the smallest, most rugged cables in the industry. Miniflex can be installed easily and quickly by pushing, pulling or blowing into PPC's class-leading low-friction microducts. The cable can be pushed by hand up to 100 m (328 ft) with up to eight 90° bends in the route. Miniflex's grooving technology makes this lightweight fiber cable ultra-flexible and kink-resistant unlike regular fiber cable.

### QuikPush Cable Assemblies

PPC's Quikpush® Nano connectors enable the pre-connectorized Miniflex fiber cable to be installed through microducts and small holes that are typical of most FTTx scenarios. QuikPush cable assemblies can be successfully pushed through 4 mm holes and microduct bores. The rugged nature of Quikpush® Nano cable assemblies reduces cost of fiber deployments and simplifies handling and connecting customer drop cables.

# QuikPush® Nano Cable Assembly



## Technical Data

### Mechanical Performance

Fiber Count	Weight	O.D.	Sheath Thickness	Tension Strength	Crush Resistance	Min. Bend Radius	
						Installation	Operation
250 $\mu$ m	kg/km (lbs/km)	mm (in)	mm (in)	N (lb)	N (lb)	mm (in)	mm (in)
1, 2, 4, 6, 8, 12	~ 4 (~8.8)	2.2 (0.09)	0.5 (.02)	100 (22)	1500 (337)	11 (.4)	22 (0.9)
1, 2, 4, 6, 8, 12	7-8 (15.4-17.6)	3.0 (.1)	0.8 (.03)	100 (22)	1500 (337)	15 (.6)	30 (1.2)
Material	Applications	Fire Rating	Color	Operating Temp			
		EN/UL		°C (°F)			
PBT	Indoor-Outdoor	Eca/General	Black	-40 to 80 (-40 to 176)			
PBIO	Indoor-Outdoor	Cca/Riser	White	-30 to 70 (-22 to 158)			

### Transmission Performance

Item	Single-mode	Single-mode 900 $\mu$ m
Specification	G657 A1	G657 A2
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 1383 nm	$\leq$ 0.32 dB/km	n/a
Attenuation at 1625 nm	$<$ 0.24 dB/km	$<$ 0.24 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 $\pm$ 0.7 $\mu$ m	125 $\pm$ 0.7 $\mu$ m
Coated diameter	235 $\mu$ m to 245 $\mu$ m	235 $\mu$ m to 245 $\mu$ m
Core/Cladding concentricity error	$\leq$ 0.5 $\mu$ m	$\leq$ 0.5 $\mu$ m
Coating concentricity error	$\leq$ 12 $\mu$ m	$\leq$ 12 $\mu$ m
Macro bend loss	(1550 nm)	(1550 nm)
10 turns at 50mm diameter	$\leq$ 0.01 dB	n/a
10 turns at 15 mm diameter	$\leq$ 0.2 dB	$\leq$ 0.03 dB
1 turn at 10mm diameter	$\leq$ 0.2 dB	$\leq$ 0.10 dB
1 turn at 7.5mm diameter	n/a	$\leq$ 0.50 dB
Temp. range (operation) -60°C to +85°C	max attenuation change $\leq$ 0.05 dB/km	
Coating Strip Force	1.3 to 8.9 N	

# QuikPush® Nano Cable Assembly



## Ordering Information: Code Builder

Example QPNA - 04 - 2 - PBIO - 4 - LCN5 - WHT - 4 - LCN5 - 1 - 2 - 100 - M

Character | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 |

**1.** Product Type  
QPNA = Quikpush®Nano

**2.** Fiber Count  
01 = 1  
02 = 2  
04 = 4  
06 = 6  
08 - 8  
12 = 12

**3.** Cable Diameter  
2 = 2.2mm  
3 = 3.0mm

**4.** Material  
PBIO = PBIO - Cca  
PBT = PBT - Eca

**5.** Number of Connectors  
01 = 1  
02 = 2  
04 = 4  
06 = 6  
08 - 8  
12 = 12

**6.** Connectors A  
LCN3 = Nano UPC  
LCN5 = Nano APC  
LC3 = LC UPC  
LC5 = LC APC  
SC3 = SC UPC  
SC5 = SC APC  
NC = No Connector

**7.** Color  
WHT = White  
BLK = Black

**8.** Number of Connectors  
01 = 1  
02 = 2  
04 = 4  
06 = 6  
08 - 8  
12 = 12

**9.** Connectors B  
LCN3 = Nano UPC  
LCN5 = Nano APC  
LC3 = LC UPC  
LC5 = LC APC  
SC3 = SC UPC  
SC5 = SC APC  
NC = No Connector

**10.** Fiber Type  
1 = G.657.A1  
2 = G.657.A2

**11.** Fiber Diameter  
2 = 250µm

**12.** Length  
XXX = length in meters

**13.** Unit of Measure  
M = Meters