

NPC+ (No Polish Connector) SC APC, FS, 250 μm and 900 μm

CORNING

Part Number: NPCP-SCA-48

The NPC+ (No Polish Connector) eliminates field polishing, loose parts, and termination tools. The innovative buffer clamp design eliminates rework by delivering superior twist and transmission with applied load (TWAL) mechanical performance. After fiber preparation and cleaving, installation is a simple three-step process: insert fiber, actuate splice, activate the buffer clamp. Faster than fusion splicing, the NPC+ delivers savings in installation expense and reduces overall complexity of termination.

Features and Benefits

Quick and easy installation

Less than one minute per connector

One piece, preassembled design

No boot or other loose parts

Factory-polished end face

Low insertion loss and high-performance return loss with no on-site polishing or adhesives required

Proprietary rear buffer clamp design

Delivers excellent twist, TWAL, and pull-out strength

Field-termination enables installer to select ideal cable length

Minimizes cable slack to store

Deactivation of the buffer clamp and splice element (900 μm only)

Provides one, single reuse



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Specifications

Mechanical Specifications - Connector

Nominal Fiber Outer Diameter	125 μm
Durability	\leq 0.2 dB change, 500 rematings, FOTP-21

Design - Connector

Connector Type	SC
Housing Color	Green
Housing Material	Composite
Ferrule Material	Zirconia

Environmental Conditions

Temperature Cycling Standard	\leq 0.3 dB IL, -40° to +75°C, 21 cycles
Operation Temperature	-40 °C - 75 °C (-40 °F - 167 °F)
Storage Temperature	-40 °C - 85 °C (-40 °F - 185 °F)

General Specifications

Fiber Category	Single-mode (OS2)
Product Type	Field-Installable Connectors
Technology	No-Epoxy/No-Polish

Optical Specifications - Connector

Polish	APC
Insertion Loss, Max.	0.6 dB
Insertion Loss, Typical	0.3 dB
Reflectance, Typical	$<$ -55 dB