

OPC Series of Pigtails

Description

ADC KRONE offers a wide array of singlemode and multimode fiber optic pigtails, featuring 0.9 mm buffered fiber in various types and colours.

ADC KRONE's singlemode connectors are available with either ultra physical contact (UPC) or angled physical contact (APC) polish. Multimode connectors are offered with a physical contact polish as standard (PC).

OPC series pigtails can be ordered in delivery units of 50 pieces for each type or as a set of 12 pigtails. These sets include 12 pigtails with identical fiber, connector and length, but with 12 different coating colours.

Features

- 100% optically tested
- Visual inspection of all features
- Insertion loss and return loss values certified and sent with every patch cord

Buffer types

Across Europe there are at least two different methods of handling pigtails within fusion splices. This means that pigtails are offered with two different buffer types: tight buffered or semitight buffered tube.

- As a general rule, tight buffered pigtails are deployed in most Western European countries. The 0.9 mm coating can be stripped off in short pieces of several centimeters, mainly for use with hot melt splice protectors.
- Semitight buffered tube pigtails are commonly used in Germany and Eastern Europe. The coating can be stripped off in larger lengths (more than 30 cm) in one piece. Crimp splice protectors are used for protecting the splice area.

Fiber types

The ADC KRONE's standard singlemode fiber is according to G.652.D. The fiber for reduced bend radius (RBR) application corresponds to G.657.A+B. Multimode fibers are according to ITU-T G.651 (OM2 and OM3) in accordance to EN 60793-2-10.

Optical Performance of Singlemode Patch Cords

		SC	LC	LX.5™	ST	FC
Insertion loss	Against master	< 0.3 dB				
		typ. 0.2 dB				
	Each-to-each	< 0.5 dB				
		typ. 0.2 dB				
Return loss	UPC polishing	> 55 dB	> 55 dB	> 55 dB	> 55 dB	> 55 dB
	APC polishing	> 65 dB	> 65 dB	> 65 dB	> 65 dB	> 65 dB
	PC polishing	> 20 dB	> 20 dB	> 20 dB	> 20 dB	> 20 dB

Optical Performance of Multimode Patch Cords

Insertion loss	Against master	< 0.3 dB				
		typ. 0.2 dB				
	Each-to-each	< 0.5 dB				
		typ. 0.3 dB				
Return loss	PC polishing	> 20 dB	> 20 dB	> 20 dB	> 20 dB	> 20 dB

Mechanical Performance/Features

Standard	IEC	61754-4	61754-20	61754-23	61754-2	61754-13
	TIA/EIA	604-3	604-10	604-13	604-2	604-4
Ceramic ferrule	diameter	2.5 mm	1.25 mm	1.25 mm	2.5 mm	2.5 mm
Colour (housing or boot)	UPC polishing (SM)	blue	blue	blue	black boot	blue boot
	APC polishing (SM)	green	green	green	green boot	green boot
	PC polishing (MM)	beige	beige	beige	black boot	black boot
Service life		500 cycles				

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Connector Type

Singlemode	Code
SC/UPC	7U
SC/APC	7A
LC/UPC	MU
LC/APC	MA
E2000/APC	8A
FC/UPC	2U
ST/UPC	4U

Multimode	Code
SC/PC	9A
LC/PC	MN
ST/PC	5F
FC/PC	2N

Standard configurations

Fiber	Colour	Code
Singlemode standard	yellow	4S
Singlemode standard	Set 12 colours	12S
Singlemode RBR	blue	3P
Singlemode RBR	Set 12 colours	12P
Multimode 62.5/125 (OM1)	grey	61
Multimode 62.5/125 (OM1)	Set 12 colours	121
Multimode 50/125 (OM2)	orange	B2
Multimode 50/125 (OM2)	Set 12 colours	122
Multimode 50/125 (OM3)	aqua	93
Multimode 50/125 (OM3)	Set 12 colours	123

Cable Type

Diameter	Coating type	Code
0.9 mm	tight buffered	T
0.9 mm	semi tight buffered	S

Individual pigtails must be ordered in delivery units of 50 pieces.

Sets of 12 pigtails include identical fiber, connector and length, but different coating colours according to IEC 60304 (red, green, blue, yellow, white, grey, brown, violet, aqua, black, orange, pink).

Standard length is 2m, other lengths on request.

Other configurations of coating colour and fiber type may be available. Please contact ADC KRONE.

Ordering Example

OPC-7A00-S-4S-2M: Individual pigtail with SC/APC connector on one end, SM G.652.D, 0.9 mm semitight buffered, yellow, 2 meters length.

OPC-MN00-T-122-2M: Set of 12 pigtails with LC/PC connector on one end, OM2 (50/125), 0.9 mm tight buffered, 12 colours, 2 meters length.

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