

Connection components - fiber optic cabling

Mechanical connectors – Rapid Connector Series RC01



INTRODUCTION:

Fibrain Rapid Connectors are specifically designed to terminate optical fibers in installation place. The Rapid Connector is a pre-polished, pre-assembled connectors compatible with the standard LC&SC connectors. Total assembly time together with fiber preparation do not exceeds 120 seconds, and requires no extra tools. The ferrules are factory polished, thus no extra polishing materials are necessary. Also the clamp system in the V-grooves, where immersion gel is placed, eliminates the necessity to use other adhesives or epoxy gel and improves the transmission parameters. High quality index matching gel, whose refractive index is close to refractive index of the core of optical fiber, significantly improves Return Loss.

The Fibrain Rapid Connector series includes the connectors which can be used to terminate singlemode and multimode optical fibers in 250 µm and 900 µm coating. Moreover, the series is equipped with a special connector construction specifically designed for VC-DCY Drop cables, which are used in FTTH systems. The connectors are mounted on an external cable sheath, not only on a fiber in 250 µm covering, which guarantees higher protection of a connection and eliminate possibility of breaking the fiber.

Excellent transmission parameters, easy assembly in installation place and time saving, are only some benefits of the new series of Fibrain Rapid Connector.

APPLICATIONS:

- ✓ Telecommunication Networks,
- ✓ Local Area Networks (LANs),
- ✓ Wide Area Networks (WANs),
- ✓ FTTH networks,
- ✓ Intra-building.

FEATURES:

- ✓ Termination time does not exceed 120 s,
- ✓ Easy and fast assembly,
- ✓ Excellent transmission parameters,
- ✓ High quality materials,
- ✓ A ferrule polished in a Premium Class has excellent geometry parameters,
- ✓ Durability and resistance of the matching gel even 25 years,
- ✓ A termination is performed with a use of standard equipment,
- ✓ Exceeds TIA/EIA-568-B.3 standards.

TECHNICAL SPECIFICATION:

Parameter	RC01 Rapid Connectors		
	SM PC	SM APC	MM PC
Insertion Loss IL _{TYP}	0.20 dB	0.30 dB	0.10 dB
Return Loss RL	55 dB	60 dB	35 dB
Durability	<0.10 dB/ 500 matings		
Operating temperature	-40 to +75°C		
Connector type	SC, SCA, LC		

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PACKING SYSTEM:

Rapid Connectors are available in sets of 10 pieces with the identification label located on each zipper-bag.

ORDERING INFORMATION:

Series	Connector type	Fiber type	Cable type
RC01	1 – SC PC	1 – SM 9/125 µm	1 - 250/900 µm
	2 – SC APC	2 – MM 50/125 µm	2 - Drop cable VC-DCY
	3 – LC PC	3 – MM 62.5/125 µm	

RC01-212 Fibrain Rapid Connector SC APC for VC-DCY Drop cables.

Important notice

Buyer and/or user of this product has to make sure before using this product that it is suitable for the intended use. All questions of liability relating to this product are subject – in accordance with the prevailing – to the Term of Sale of the selling Fibrain subsidiary.