DIAMOND
Fiber Optic Components

Patchcord specifications

CABLE ASSEMBLIES

Diamond fiber optic patchcords and assemblies are terminated on different cable types and constructions and are suited for use in a wide range of applications.
IEC Standard 61753-1 defines performance standards for fiber optic connectors and passive components in two classes of environments:

- Controlled environment (C) is defined as typical environment one would expect to find in an office, equipment room, telecommunication centre or building. Expected temperature variations are reduced and no condensed or liquid water is expected.
- Uncontrolled environment (U) is defined as typical environment one would expect to find in enclosed or covered outdoor applications (shacks, lofts, telephone booths, street cabinets). Equipment developed for this type of environment has to withstand higher temperature variations, condensed water, limited wind driven precipitation and may be in contact with sand and dust.

STANDARDS

- IEC 61753-1 (Ed. 1.0) Fibre optic interconnecting devices and passive components performance standard.
  Part. 1: General and guidance for performance standards.

PERFORMANCES

ENVIRONMENTAL CATEGORY	OPERATING TEMPERATURE	RELATIVE HUMIDITY	CABLE FLEXING IEC 61300-2-44	CABLE RETENTION IEC 61300-2-4
Controlled environment (C)	-10°C to +60°C	5% to 93% non-condensing	2 N for reinforced cable	50 N for reinforced cables 5 N for secondary coated fibres
Uncontrolled environment (U)	-25°C to +70°C	0% to 95%, condensing	5 N for reinforced cable	100 N for reinforced cables with diameter > 2mm 70 N for reinforced cables with diameter ≤ 2mm 5.0 N for secondary coated fibres

NOTES - Please refer to the individual data sheets for detailed specifications on individual connector types.
- Diamond can not guarantee performance criteria for connectors terminated on fiber or cable not tested and approved by Diamond.

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