

Damar & Hagen Triax Connectors are characterised by high optional reliability and ease of assembly.

The product range includes Triax plug-and-socket connections for the connection of color television camera cables in television studios, transmission vans and outdoor operation.

The connector range with keyed bayonet locking has been VDE-tested and satisfies the demands set by DIN 40050, VDE 0110, 0470 und VDE 0627.

This series includes cable plugs and cable sockets with cable entry fittings for various cable dimensions and installation assemblies with various methods of connection.

All Triax connectors with cable entry (housing) have a radial cable clamping, therefore high tensile loading of the cable can be intercepted.

Additional rectangular flanges on the cable assemblies permit the installation of preassembled Triax cables in patch-boards. Protective Sleeves can be delivered for all straight cable assemblies.

Waterproof protective caps are available for all models as additional accessories.



VDE-tested in acc. with DIN 40050, VDE 0110, VDE 0470 and VDE 0627

Electrical Characteristics (at 20 °C and 65 % relative humidity)

Surge Impedance	75 Ω
Frequency Range	up to 800 MHz
Reflection factor (Plug-Socket inserted).....	≤ 0.07
Contact resistance.....	Inner conductor ≤ 3 mΩ
.....	Inner shield ≤ 3 mΩ
.....	Outer shield ≤ 15 mΩ
Insulation resistance.....	³ 10 ⁴ MΩ at (100 ± 15) V-
Test voltage	
between inner conductor and inner shield	£ 1.5 to 2.7 kV eff. 50 Hz
between inner and outer shield	³ 1 kV eff. 50 Hz
Operating voltage	≤ 700 V _{SS}
Operating current.....	≤ 1.5 A

Mechanical Details

Contact assignment.....	1 inner conductor, 2 concentric protective shields ¹
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¹Contact to the outer protective shield is made first at insertion.

Contact system	Pin-socket principle
Cable connection.....	Crimp-/ Solder-Technology
Cable entry	max. 14 mm Ø
Tension load on the cable clamp	400 N max. – depends on the breaking strength of the cable used
Coupling type.....	Bayonet connection
Total insertion force	≤ 50 N
Total extraction force	≤ 40 N
Mechanical endurance	≤ 1.500 reliable connections
Impermeable to presswater.....	in connected state, safety class IP67 in acc. with DIN 40050 (to 10 N/cm ²)

Operating Temperature Range

Plug-and-Socket connections without Strain Relief Sleeve	- 60 °C to +150 °C
Plug-and-Socket connection with Strain Relief Sleeve (polyurethane).....	- 60 °C to +100 °C

The specified data serve only to describe the product and should not be considered legally binding, guaranteed properties. Depending on the application, design, type of cable and assembly method the specified values may differ. We reserve the right to make constructional changes, determine delivery and are not responsible for any errors and omissions.



Individual customized High Performance Cable Connectors

On the basis of our 90 years of experience as Developer and Producer of high quality cable connectors we are able to provide customer-specific solutions by manufacturing individual precision cable connectors from Damar & Hagen.

Options

Surface	special surfaces according to customers requirement, for the layer structure and also for the layer thicknesses
Cable connections.....	halogen-free cables, two braids cable, multi-wire cable, unusual cable diameter, different cable length, additional clamping of the cable sheath, Assembly by our company,
Dimensions.....	all dimensions, distances, nuts, tread length mounting holes, insulation bases etc. are variable according to customers requirement
Electrically variable.....	special resistors, circuits, contacts are possible According to customers requirement
Insulating parts, gaskets and contacts	other colours and materials are possible (e. g. Beryllium bronze for outer conductor contact)