

117 Series

High Frequency Size-8 Blind Mate Contacts



Kings products, like the 117 Series, are now sold under the Kings-Win™ brand from Winchester Interconnect™

Product Description

New 117 Series Size-8 RF contacts are designed for high-frequency applications up to 32 GHz.

117 Series contacts are designed to be used with our RDM Combination D-Sub connectors, and this new series is a perfect solution for high density, high performance RF applications in military, test and measurement, and telecommunication industries.

117 Series Cable Plugs and Receptacles are available for RG-402 Semi-Rigid cable and RG-142 and RG-316 flexible cables.



Flexible cable receptacle contacts feature a precision machined $\phi.040$ male center contact with a retention barb, which snaps into the insulator to prevent the pin contact from backing out of the plug assembly.



Semi-rigid contacts are quick and easy to terminate. Termination for the center contacts is "Point & Shoot" and the cable jacket is direct solder.



Cable plug contacts feature a beveled front end to provide improved alignment to mating receptacle contacts.



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Specifications

| | | | |
|------------------------|---|----------------------------|-----------------------|
| Electrical | Voltage Rating | Material | Contact Finish |
| Impedance | 1000V RMS | Insulator | Gold |
| 50 Ohms | Insertion Loss | PTFE | Clip Ring |
| Polarity | $0.04 \times \sqrt{f(\text{GHz})}$ dB Max | Body | Beryllium Copper |
| Standard | VSWR (Mated Pair) | Brass | |
| Frequency (GHz) | $1.15 + 0.02 \times f(\text{GHz})$, RG316 | Body Finish | |
| DC to 32 GHz | $1.15 + 0.01 \times f(\text{GHz})$, RG142 | Gold | |
| Isolated | $1.08 + 0.009 \times f(\text{GHz})$, RG402 (.141" SR) | Contact | |
| No | | Plug – Beryllium Copper | |
| RoHS Compliant | | Receptacle – Brass | |
| Yes | | | |



Figure 1



Figure 2



Figure 3



Figure 4

Part Numbers

| Part Number | Description | Cable Size | Termination Method | Figure | KTH-1000 Crimp Die |
|-----------------|---------------------|---------------------------|------------------------|--------|-------------------------|
| 1173-900-E0001G | Straight Receptacle | RG-142 | Solder / Crimp | 3 | KTH-2001 (.215 Hex Die) |
| 1175-900-E0001G | Straight Plug | RG-142 | Solder / Crimp | 4 | KTH-2001 (.215 Hex Die) |
| 1173-500-14101G | Straight Receptacle | RG-402 (.141" Semi-Rigid) | Point & Shoot / Solder | 1 | |
| 1175-500-14101G | Straight Plug | RG-402 (.141" Semi-Rigid) | Point & Shoot / Solder | 2 | |
| 1173-900-B0001G | Straight Receptacle | RG-316 | Solder / Crimp | 3 | KTH-2001 (.128 Hex Die) |
| 1175-900-B0001G | Straight Plug | RG-316 | Solder / Crimp | 4 | KTH-2001 (.128 Hex Die) |



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