

MATERIAL AND PLATING

Contact Size	Material	Plating	
		Standard	Optional
20 - 16 - 12 - 8	Copper Alloy (CuZn)	Silver	Gold or Heavy Gold
4 - 0 - 2/0 - 4/0	High Conductivity Copper Alloy (CuTe)		

MATERIAL

Signal and Power Contacts

Choice of body material for the contacts is generally driven by two main factors:

- Current rate
- Connection type between wire and contact (solder or crimp)

What in the table above is the standard for us, changes can be discussed with the customer.

Thermocouple Contacts

For sizes 16 and 12 are available thermocouple materials, in a lot of arrangements as showed in the dedicated pages for each connector series.

Materials we can supply for this application are:

- Chromel
- Alumel
- Iron
- Constantan
- Copper



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PLATING

Silver plating is the standard finish for these connector series, thickness of $3\mu\text{m}$ as minimum on a suitable under-plating layer ($3\mu\text{m}^{+3/-0}$). We can provide as optional platings our standard Gold thick $0,4\mu\text{m}^{+0,2/-0}$, or our improved wearing resistance Heavy gold with a thickness of $0,8\mu\text{m}^{+0,2/-0}$.

Performances of our electroplated precious metal are tested by our internal qualified ISO/IEC 17025 Laboratory according ASTM B-700, MIL-DTL-45204 and SAE AS39029 specifications.

WIRE TERMINATION

Connectors of the series IT, ITS, ITS-RG and ITZ can be supplied both with crimp contacts to be assembled later into the insert, or with solder contacts already installed into the connector. Solder type contact is available in the PCB version also (PC TAIL).

Crimp technology requires a specific and dedicated crimping tool according material used, size, wire barrel design, etc. To guarantee a reliable termination for each contact, Glenair offers the right tool and accessories combination, from leading crimp tools manufacturers, according the tables in the "Crimping Tools" section of this catalog.

Since connectors for crimp contacts can be bought with or without contacts, therefore you can buy crimp contacts as spare parts also, according the full list in the "Part Numbering" section.

When you buy a contact as spare, not in bundle with the connector, pay attention to add the plating type at the end of p/n (see "How To Order" in the A-9 page).

Most of the standard crimp contacts offered for the series IT, ITS, IT-RG and ITZ have own special versions, with a modified wire barrel, in order to accommodate smaller and/or larger wire size than standard one.

The complete list of these contacts is again in the Part Numbers section.



Crimp (Wire) Barrel



Soldering Cup



Pc Tail