

TOP TEN

Questions to Build a High End Custom Connector

*A Connector Manufacturer's Guide to Helping You Specify
the Best Connector For Your Application*

1. What is the application amperage? _____
2. What is the application voltage? _____
3. How many contacts are required? _____
4. Is EMI / RFI Shielding required?
 - In the cable
 - Braid,
 - Foil
 - Both Braid and Foil: Percentage of braid: _____
 - Drain wire: Is gauge different from conductors? _____
 - Connector
 - From cable shield through plug coupling ring to receptacle
5. What connector configurations are required?
 - Plug with ___ pins or ___ sockets)
 - Is there a desired coupling method?
 - Bayonet
 - Threaded
 - Push Pull
 - Snap
 - In-Line Receptacle with ___ sockets or ___ pins)
 - Panel mount Receptacle with ___ sockets or ___ pins
 - Front mount
 - Rear mount
6. What style of over mold is required for the Plug and In-Line Receptacle (if required)?
 - Straight: with strain relief
 - Straight: without strain relief
 - Right Angle: with strain relief
 - Right Angle: without strain relief
 - Custom over mold and / or over molded grommet



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7. If this is a single ended assembly, if not blunt cut, are there requirements for End B?

- Jacket stripping
- Conductor slugging or strip and tinning
- Board level connector (T.E., Molex, JST, ???)
- Terminals (Ring, fast on, ???)
- Ferrules
- Other _____

8. Are there any special environmental requirements?

- IP67, IP68, IP69K
- UL Type 4
- NEMA
- UV
- Flame resistance
- Other _____

9. Are there any special mechanical requirements?

- Tensile pull
- Abrasion resistance
- Dimensional restrictions
- Special tolerance requirements (Such as overall length of assembly)

10. Are there any special testing requirements?

- Electrical
- Mechanical
- Third party approvals
- Other (such as PPAP) _____

Our knowledgeable staff at iCONN Systems, LLC is available to assist in developing the best connector and cable assembly for your project. Please contact us at 630-827-6000 or info@iconnsystems.com to discuss your connector needs.