

Cables, Connectors Custom interconnect capabilities

Years of accumulated experience with power have resulted in ever-enlarging expert support in interface requirements- input and output cables, harnesses, and custom connectors and adapters.

This is a random overview to demonstrate cost efficient capabilities that are available together with APX power supplies, or independently for your needs.

Cabling

Input:

- Safety approved power cordage, all gauges constructions, molded plugs for all countries, molded strain reliefs
- High temperature, UV, oil and chemical resistant, abrasion resistant jackets
- Medical grade. Coiled cables
- And IEC 320 cord sets of every type for every country

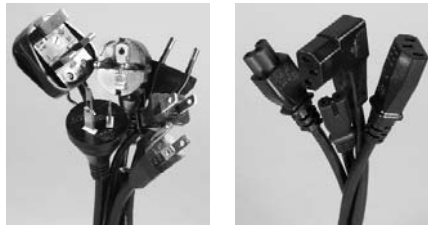
Output:



- Complete harnesses with any specified interfaces
- From parallel or coax cable through to shielded and jacketed multi-conductor constructions
- Coil cords of all constructions
- High temperature, high breakdown voltage
- Ruggedized jackets
- Specific color coding
- CAT 5 types
- Strain relief or other molding
- Super flexible construction
- Medical constructions
- Extension cables

IEC Input cord sets

IEC molded cord sets, plugs for all countries terminated to all IEC320 connector styles, straight and right angle



IEC 320-C13,3 blade grounded

Country of use	Part Number
Brazil	AP3860ZC
South Africa	AP3860SC
Europe, Schuko CEE 7/7	AP3860FC
Europe 2 pin CEE 7/16	AP3860EC
UK 13A fused plug	AP3860BC
Australia	AP3860AC
US Nema 5-15P	AP3860C
Japan 2 blade with ground lug	AP3860JE
China 2 blade	AP3860HC

IEC 320-C8 2 pin

Country of use	Part Number
Australia	AP3890AC
UK	AP3890BC
US	AP3890C
Europlug CEE 7/16	AP3890EC

For 90° right angle plug, change AP3860 to AP3861; AP3890 to AP3891.

For 90° right angle IEC socket, change AP3860 to AP3862; AP3890 to AP3892

Other options:

90° configuration both plug and IEC connector, cable length other than 6 feet, shielded cable.

IEC 320-C5, C19 styles available

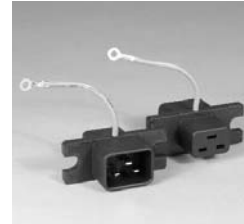
IEC Jumper cables with male pins/blades available in all styles

Dual output "Y" cables in all styles - consult sales at APX.

Connector Examples:



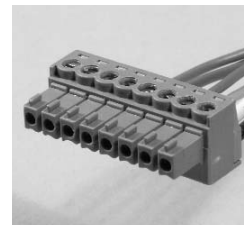
Molded junction cables for split outputs



Panel-mount IEC-320 feed through for blind mating



Between-Series-Adapters, i.e.: Din to mini Din



8 Position Modem



Totally Custom Proprietary, Euro Block

Design Integration

The Relationship between power supply specified output and cable requirements is highly inter-dependent. Outputs at required conditions are measured at the load, hence your output cable/ connector needs will be considered part of the power supply design, to insure it is meeting your objectives. Variables to be accounted for include cable length and its effect on regulation, gauge and current capacity, connector contact ratings, to name a few. These together with mechanical and construction requirements will be integrated to optimize product performance.

DESIGN GUIDE: Output Connectors

This is a representative group of widely used output connectors which are normally overmolded to provide a rugged transition to cabling through a flexible strain relief. Various other connectors featuring locking or positive coupling are available and too numerous to list.

Where appropriate, pinning can be specified to designate center positive or negative, ground to pin or shell, plus and negative voltages, etc.,


or we can advise you of our standard designations.

If you have any proprietary interface, we can provide a mate. Unusual cable requirements can also be accommodated.


Ferrite bead EMI filtering can be provided at the output end of the cable to contain or attenuate emissions if present.

Consult sales for detailed dimensional drawings.

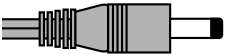
1 **Male Pin**
Available in pin diameters 1.0, 1.3, 2.0, 2.5, and 3.5mm
Straight or 90°




2 **Stereo Plug**
Available in diameters of 2.5, 3.5, 6.3mm
Straight or 90°



3 **Coaxial Female Barrel**
Diameters of 0.7, 1.0, 1.3, 1.7, 2.1, 2.5, 3.5mm and various barrel lengths
11mm standard



4 **Detent Coaxial Female Barrel**
Detent for positive engagement.
All inside diameters



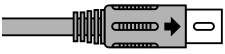
5 **Coaxial 90° Female Barrel**
Detent available.
All inside diameters



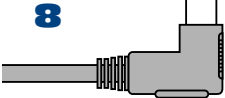
6 **Coaxial Locking Female Barrel**
Threaded coupling ring
straight or 90°




7 **DIN Plug**
Available with 3 to 8 contacts
Male and female
Standard or custom pinouts
5 and 8 pin available with alternate contact layouts



8 **90° DIN**
Male and Female
Available with 3 to 8 contacts



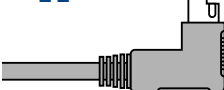
9 **Locking DIN**
Threaded coupling ring
All contact layouts



10 **Mini DIN**
3 to 8 contacts



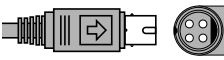
11 **90° Mini DIN**
Polarized 2 to 8 contacts



12 **Snap Locking Mini DIN**
3 or 8 contacts



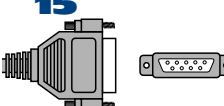
13 **Snap Locking Power Mini DIN**
4 contacts




14 **Locking Audio XLR Type**
3 to 7 contacts



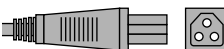
15 **D Sub**
9, 15 contacts, shielded
available plastic or metal,
all jack screw styles



16 **Automotive**
2 pin molded




17 **3 Pin Polarized**
custom dimensions available



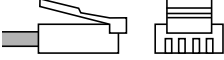
18 **3 Pin Alternative Layout**
custom dimensions available



19 **Combicom Screw Clamp**
8 pin modem, or 2
Positions and up



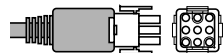
20 **RJ type Modular plug**
Overmolded. Available
9 or 15 pin with or
without screwlocks




21 **Amp Cylindrical Multi Pin**
threaded or bayonet
coupling. Available with
various contact layouts




22 **Amp Mate-N-Lock**
single, dual, triple row
2-9 contacts




23 **Molex .156 Pitch Housing**
Overmolded with locking
ramp. Available with 2 to 8
positions
also available with .100 pitch




24 **Molex .200 Pitch Housing**
Polarized 2 to 8 contacts
Also available with locking
ramp. Overmolded or plain



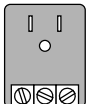
25 **Molex .100, .156 Pitch Housing**
Overmolded with
locking latch. Available
from 2 to 8 contacts
with positive locking
or friction fit



26 **Automotive Lighter**
Fusing available



27 **Screw Terminals Case**
2,3,4 positions



28 **Strip and Tin**



29
Any other connector system from any manufacturer, including medical instrumentation types, splash proof types, anti-arcing configurations.

And mating jacks for any mounting style, to interface with every connector system.

Note: All dimensions in millimeters. Specifications subject to change.



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