

AC to AC Output Adapters

Standard Products
North American use,
input 120 VAC, 60Hz



AC Output Adapters

Output VAC	Case	Size	Model	UL	CSA/CUL
4.5 @ 300mA	WPI	35	AP3440	X	X
4.5 @ 500	WPI	35	AP3441	X	X
4.5 @ 1200	WPI, DT	41	AP3442	X	X
6 @ 200	WPI	35	AP3443	X	X
6 @ 400	WPI	35	AP3444	X	X
6 @ 800	WPI, DT	41	AP3445	X	X
6 @ 1200	WPI, DT	41	AP3446	X	X
6 @ 1500	WPI, DT	48	AP3447	X	X
7.5 @ 200	WPI	35	AP3448	X	X
7.5 @ 400	WPI	35	AP3449	X	X
7.5 @ 600	WPI, DT	41	AP3450	X	X
7.5 @ 1000	WPI, DT	41	AP3379W	X	X
7.5 @ 1200	WPI, DT	41	AP3451	X	X
9 @ 200	WPI	35	AP3452	X	X
9 @ 300	WPI	35	AP3453	X	X
9 @ 400	WPI	35	AP2855	X	X
9 @ 600	WPI, DT	41	AP3454	X	X
9 @ 700	WPI, DT	41	AP3455	X	X
9 @ 1000	WPI, DT	41	AP3141W	X	X
9 @ 1200	WPI, DT	48	AP3456	X	X
9 @ 1500	WPI	48	AP3305W	X	X
12 @ 150	WPI	35	AP3457	X	X
12 @ 200	WPI	35	AP3458	X	X
12 @ 300	WPI	35	AP3070W	X	X
12 @ 500	WPI, DT	41	AP3405	X	X
12 @ 800	WPI, DT	41	AP3378W	X	X
12 @ 1000	WPI, DT	48	AP1795W	X	X
12 @ 1670	WPI	57	AP2013W	X	X
12 @ 4500	DT	66	AP1985	X	X
13.5 @ 1000	WPI, DT	48	AP3460	X	X
14 @ 2800	WPI	57	AP3125	X	X
15 @ 200	WPI	35	AP3461	X	X
15 @ 500	WPI, DT	41	AP3377W	X	X
15 @ 600	WPI, DT	41	AP2540	X	X
15 @ 700	WPI, DT	48	AP3399	X	X
15 @ 1000	WPI	48	AP3464	X	X
18 @ 200	WPI	35	AP3465	X	X
18 @ 500	WPI, DT	41	AP3466	X	X
18 @ 600	WPI, DT	48	AP3467	X	X
18 @ 1000	WPI	57	AP3468	X	X
19.5 @ 800	WPI	57	AP2513W	X	X
22 @ 1500	DT	57	AP3217	X	X
24 @ 150	WPI	35	AP3469	X	X
24 @ 400	WPI, DT	41	AP3470	X	X
24 @ 570	WPI, DT	48	AP3376W	X	X
24 @ 1200	WPI	57	AP2881	X	X
24 @ 3000	DT	66	AP3388	X	X
24 @ 5000	DT	76	AP4410	X	X
26 @ 7500	DT	76	AP3389	X	X
26 @ 2250 CT	DT	66	AP3569	X	X

Case designations: WPI - wall plug-in
DT - desk top (cable to cable)

International Applications
Input 230 VAC, 50 Hz

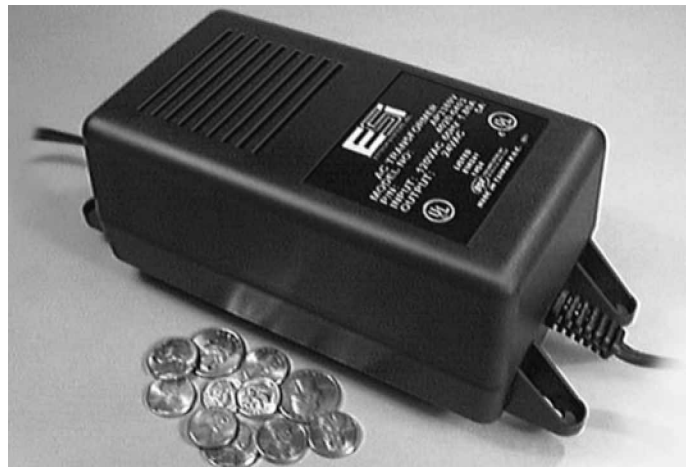
AC Output Adapters

Output VAC	Case	Size	Model	TUV
9 @ 200mA	WPI	57	AP1896E	X
9 @ 2500	DT	57	AP2241E	X
12 @ 500	WPI	41	AP3405E	X
12 @ 1000	WPI, DT	48	AP1795EW	X
12 @ 1800	DT	57	AP3041E	X
16 @ 700	WPI	48	AP2067E	X
18 @ 1400	DT	57	AP1740F	X
19.5 @ 800	DT	48	AP2513E	X
24 @ 800	WPI	57	AP1540E	X
24 @ 1200	DT	57	AP2881E	X

Bold face "W" model listings are generally readily available from distribution. These are off-the-shelf standard, wall plug-ins or desk tops as indicated, with 2.5 x 5.5 x 11mm female center positive connectors. Where indicated, desk top cases are available by adding "D" to the part model number. All are available with a variety of output connectors.

New High Power AC Adapters

Up to 180 VA external power applications filled by EI76 design.



Desk-Top case with keyhole feet for screw-down mounting.

Example: 24 VAC @ 7.5A

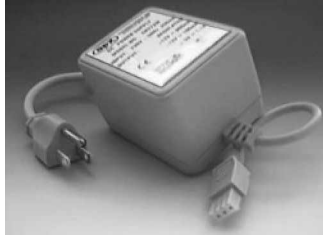
Choice of options:

- Output voltage
- Power-On LED's
- User accessible fuses
- External circuit breaker
- Output cable connectors
- Consult sales for details



DC Output Unregulated Adapters

Standard Products
North American use,
Input 120 VAC, 60Hz



DC Output Adapters

Output VDC	Case	Size	Model	UL	CSA/CUL
3 @ 500mA	WPI	35	AP3471	X	X
3 @ 1500	WPI, DT	41	AP3472	X	X
4.2 @ 100	WPI	35	AP3473	X	X
4.5 @ 500	WPI	35	AP3474	X	X
4.5 @ 1200	WPI, DT	41	AP3475	X	X
6 @ 200	WPI	35	AP3476	X	X
6 @ 300	WPI	35	AP2382	X	X
6 @ 400	WPI	35	AP3155W	X	X
6 @ 800	WPI, DT	41	AP3477	X	X
6 @ 1000	WPI, DT	41	AP3374W	X	X
6 @ 1200	WPI, DT	48	AP3478	X	X
6 @ 1500	WPI, DT	48	AP3479	X	X
7.5 @ 200	WPI	35	AP3480	X	X
7.5 @ 400	WPI	35	AP3481	X	X
7.5 @ 600	WPI, DT	41	AP3482	X	X
7.5 @ 900	WPI, DT	41	AP3483	X	X
7.5 @ 1200	WPI, DT	48	AP3484	X	X
8 @ 1200	WPI, DT	48	AP3485	X	X
9 @ 200	WPI	35	AP2911W	X	X
9 @ 300	WPI	35	AP3486	X	X
9 @ 400	WPI	35	AP3487	X	X
9 @ 500	WPI, DT	41	AP1325W	X	X
9 @ 700	WPI, DT	41	AP3488	X	X
9 @ 800	WPI, DT	41	AP3489	X	X
9 @ 1000	WPI, DT	48	AP2072W	X	X
9 @ 1200	WPI, DT	48	AP3490	X	X
9 @ 1500	WPI	57	AP3491	X	X
10 @ 1000	WPI, DT	48	AP3492	X	X
12 @ 150	WPI	35	AP3493	X	X
12 @ 300	WPI	35	AP2837W	X	X
12 @ 500	WPI, DT	41	AP3745W	X	X
12 @ 600	WPI, DT	41	AP3375W	X	X
12 @ 800	WPI, DT	48	AP3495	X	X
12 @ 1000	WPI, DT	48	AP2105W	X	X
12 @ 1500	WPI	57	AP1828W	X	X
12 @ 2500	DT	66	AP2410W	X	X
13 @ 700	WPI, DT	48	AP3496	X	X
13.5 @ 1300	WPI	57	AP3497	X	X
15 @ 200	WPI	35	AP3498	X	X
15 @ 400	WPI, DT	41	AP2848W	X	X
15 @ 700	WPI, DT	48	AP3499	X	X
15 @ 900	WPI	48	AP2637W	X	X
15 @ 1000	WPI	57	AP3500	X	X
15 @ 2000	DT	66	AP2783W	X	X
18 @ 200	WPI	35	AP3501	X	X
18 @ 400	WPI, DT	41	AP2925	X	X
18 @ 600	WPI, DT	48	AP3502	X	X
18 @ 800	WPI	57	AP4830W	X	X
18 @ 1000	WPI	57	AP3503	X	X
24 @ 100	WPI	35	AP3504	X	X
24 @ 300	WPI, DT	41	AP3505	X	X
24 @ 570	WPI, DT	48	AP2654W	X	X
24 @ 750	WPI	57	AP3029W	X	X

Case designations: WPI - wall plug-in
DT - desk top (cable to cable)

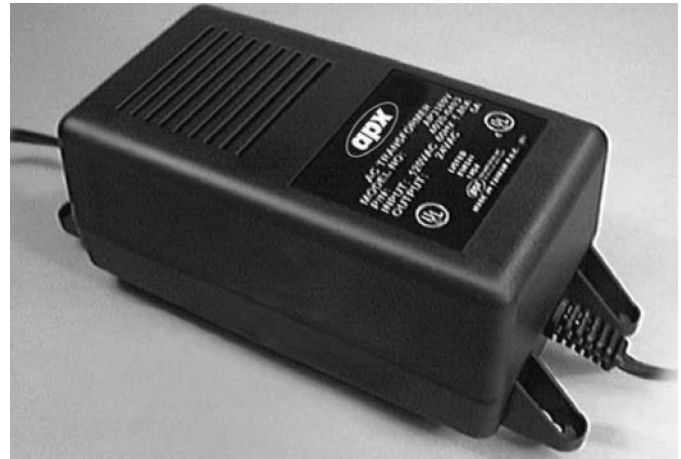
International
Applications
Input 230 VAC, 50 Hz

DC Output Adapters

Output VDC	Case	Size	Model	TUV
6 @ 200mA	WPI	35	AP3476E	X
6 @ 500	WPI	41	AP3740E	X
9 @ 300	WPI	41	AP3486E	X
9 @ 500	WPI	41	AP1325EW	X
9 @ 1000	DT	48	AP2072EW	X
12 @ 300	WPI	41	AP2837E	X
12 @ 500	WPI	48	AP3745E	X
12 @ 600	WPI	48	AP1254E	X
12 @ 2500	DT	66	AP3012E	X
18 @ 800	WPI	57	AP2360E	X



High Power Unregulated
DC Output available up to
100 watts in new EI76 case.



Example: 12 VDC @ 7.5A

Available options include externally accessible circuit protection, input and output cables and connectors, LED Indicator. Consult sales with your application

Family Safety Approvals

Extensive alternative output combinations are available under APX family-wide safety approvals.
See pages 6 and 7.

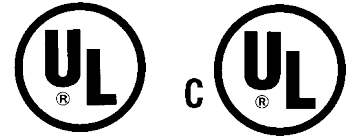
See pages 2,3,8 and 9 for options, case and cable details, and output connectors



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Website: www.apxtechnologies.com • www.apxonline.com

AC and DC Output Unregulated Adapters



Family Safety Approvals North American applications, 120VAC, 60Hz

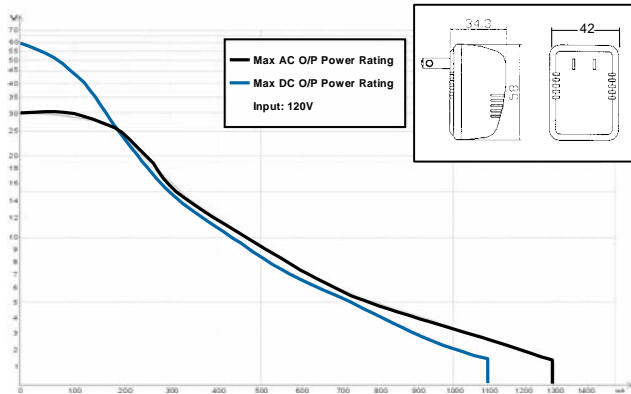
Family-wide UL, CUL safety approvals offer wide choices of outputs specifically matched to your load requirements, without being limited to the models listed on the proceeding pages.

These graphs illustrate the output voltage/current combinations available for AC and DC unregulated adapters.

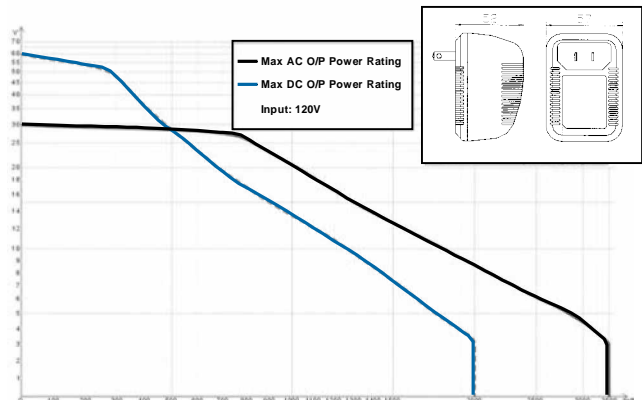
All values beneath the curves are approved. The curved traces indicate safety agency limits at high-line input under UL1950.

30VAC or 60VDC are the maximum voltages under UL1950 at high line input.

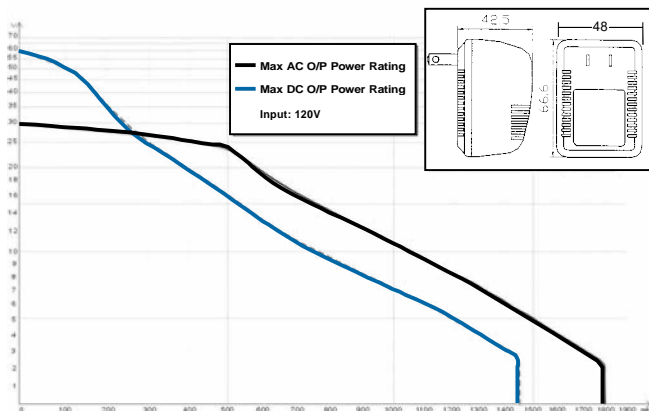
Max O/P Power Curve for EI 35 Series Adaptor



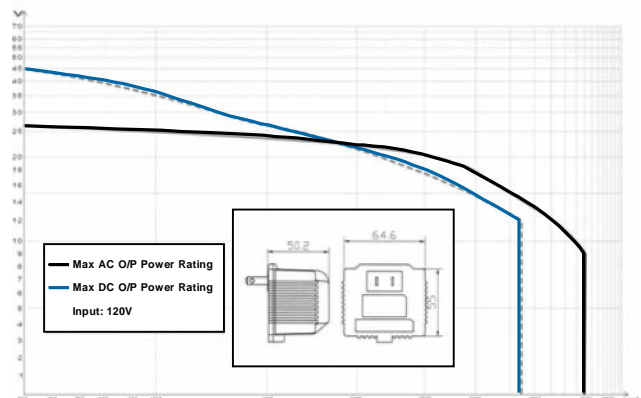
Max O/P Power Curve for EI 48



Max O/P Power Curve EI 41



Max O/P Power Curve for EI 54 Series



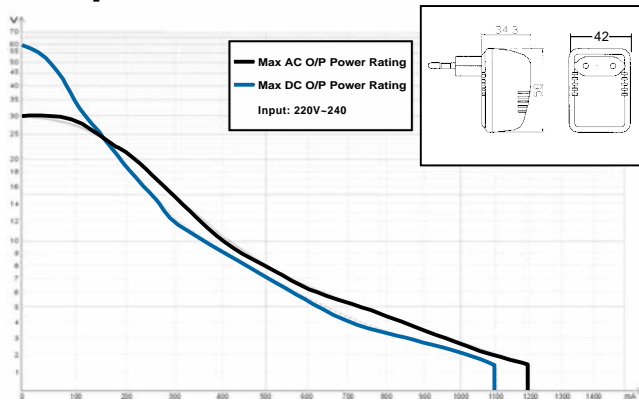
Note: All dimensions in millimeters. Specifications subject to change.

AC and DC Output Unregulated Adapters

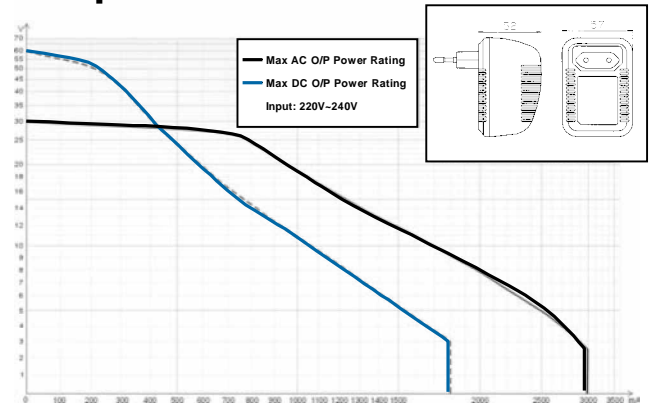


Family-wide TUV safety approvals offer wide choices of outputs specifically matched to your load requirements. All values beneath the curves are approved. The curved traces indicate limits at high-line input under TUV EN60950 30VAC or 60VDC are the maximum voltages under TUV EN60950 at high line input.

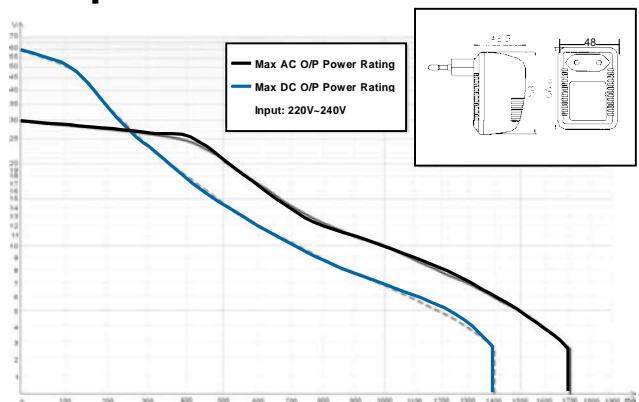
Max O/P Power Curve for EI 35 Adaptor Series



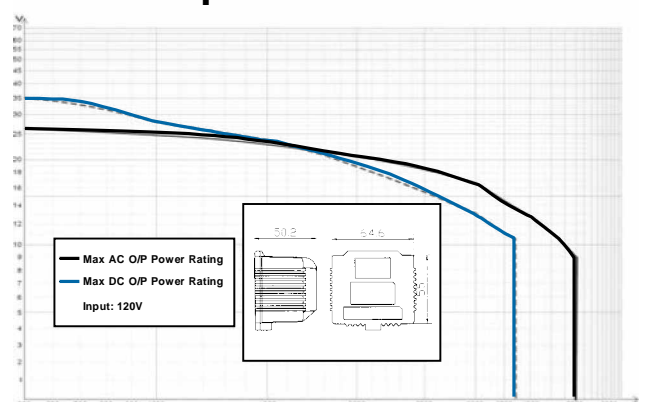
Max O/P Power Curve for EI 48 Adaptor Series



Max O/P Power Curve for EI 41 Adaptor Series

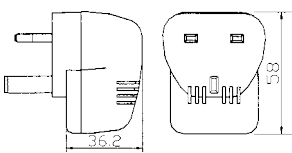


Max O/P Power Curve for EI 54 Adaptor Series

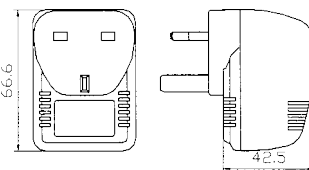


British TUV Case Dimensions

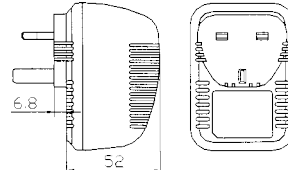
EI35



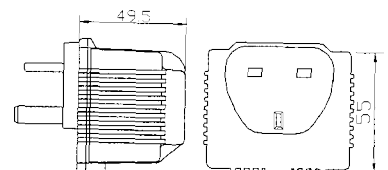
EI41



EI48



EI54



There are many additional family-structured safety approvals for larger-sized, higher power models, and family groupings beyond the curves shown.

Contact sales if your needs are outside the graphs shown.



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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

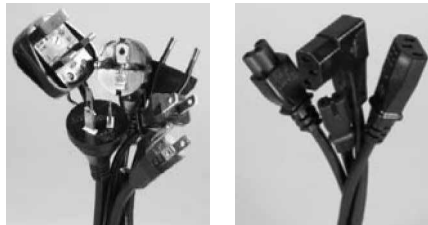
Output:



- 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

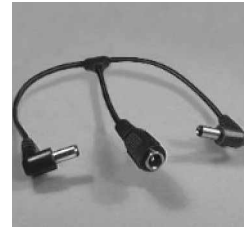
Other options:

90° configuration both plug and IEC connector, cable length other than 6 feet, shielded cable. IEC 320-C5, C19 styles available

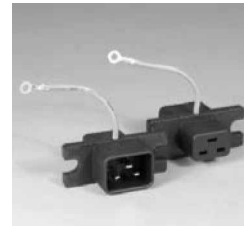
IEC Jumper cables with male pins/blades available in all styles

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

Connector Examples:



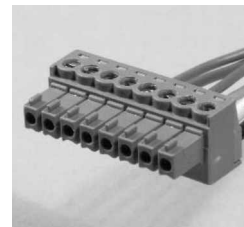
Molded junction cables for split outputs



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.

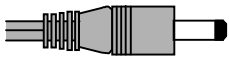
1 **Male Pin**
Available in pin diameters 1.0, 1.3, 2.0, 2.5, and 3.5mm
Straight or 90°



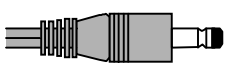
2 **Stereo Plug**
Available in diameters of 2.5, 3.5, 6.3mm
Straight or 90°



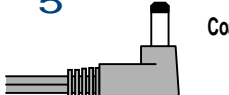
3 **Coaxial Female Barrel**
Diameters of 0.7, 1.0, 1.3, 1.7, 2.1, 2.5, 3.5mm and various barrel lengths
11mm standard



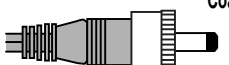
4 **Detent Coaxial Female Barrel**
Detent for positive engagement.
All inside diameters



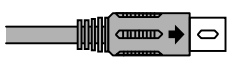
5 **Coaxial 90° Female Barrel**
Detent available.
All inside diameters



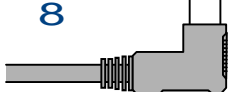
6 **Coaxial Locking Female Barrel**
Threaded coupling ring
straight or 90°



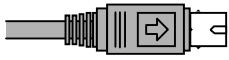
7 **DIN Plug**
Available with 3 to 8 contacts
Male and female
Standard or custom pinouts
5 and 8 pin available with alternate contact layouts



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



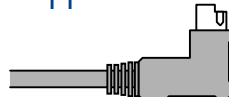
9 **Locking DIN**
Threaded coupling ring
All contact layouts




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



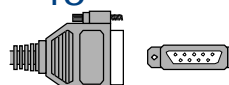
13 **Snap Locking Power Mini DIN**
4 contacts



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



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



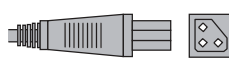
16 **Automotive**
2 pin molded



17 **3 Pin Polarized**
custom dimensions available



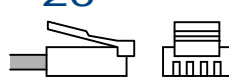
18 **3 Pin Alternative Layout**
custom dimensions available



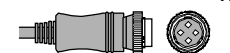
19 **Combicom Screw Clamp**
8 pin modem, or 2
Positions and up



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



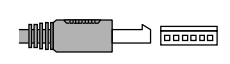
21 **Amp Cylindrical Multi Pin**
threaded or bayonet
coupling. Available with
various contact layouts



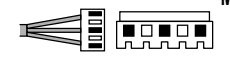
22 **Amp Mate-N-Lock**
single, dual, triple row
2-9 contacts



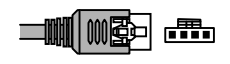
23 **Molex .156 Pitch Housing**
Overmolded with locking
ramp. Available with 2 to 8
positions
also available with .100 pitch



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



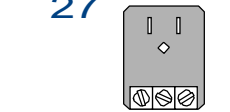
25 **Molex .100, .156
Pitch Housing**
Overmolded with
locking latch. Available
from 2 to 8 contacts
with positive locking or
friction fit



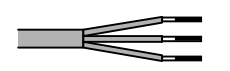
26 **Automotive Lighter**
Fusing available



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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