

Making Your Medical Design Decisions Easy...

Interpower® is your one-stop shop for all of your medical component needs. For a complete listing of these parts, visit www.interpower.com/ic/hospitalgrade.html.

- 1-week U.S. manufacturing lead-time on non-stock Interpower products
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Hospital-Grade Standards & Requirements

North American Medical Market

Medical components used in North America, such as power cords, cord sets, modules, and rewirable plugs and sockets, must meet very stringent standards. These components are subject to the special requirements contained in the following standards: CAN/CSA C22.2 no. 60601-1 and UL 60601-1 (medical equipment); UL 817 and CAN/CSA C22.2 no. 21-99 (power supply cords); UL 498 and CAN/CSA C22.2 no. 42-14 (attachment plugs).

The North American hospital-grade molded plug pattern conforms to the NEMA standard. The blades shall be formed of solid brass material and the grounding pin shall not be capable of being easily bent without the use of tools. The blades are normally nickel-plated. The plug includes a cable retention device or strain relief to prevent any stress to the plug's internal connections. It is imperative that the ground connection be reliably maintained to protect the patient and medical staff. Although many hospitals prefer that the plug be clear so that internal connections can be inspected visually, the UL and CSA standards do not mandate clear plugs nor do they provide any restrictions on color.

Interpower North American hospital-grade cords, plugs, and sockets carry the "green dot" signifying that they have been designed and tested by UL and CSA for grounding reliability,

assembly integrity, strength and durability. Specifically, UL 60601-1 requires that "patient care equipment" used in the "patient vicinity" must use hospital-grade attachment plugs. "Patient care equipment" and "patient vicinity" are defined in UL 60601-1. There are no specific maximum lengths for cords noted in the standards listed above, yet the equipment must pass the leakage current test requirements in CAN/CSA C22.2 no. 60601-1 and/or UL 60601-1. Cord length does have an effect on leakage current within a system.

International Medical Markets

International markets, including European medical equipment used in these markets, typically must meet EN/IEC 60601-1. At this time, there are limited performance or construction requirements for cord sets used in these applications. Cord sets typically will be Class I (with ground). Interpower offers the Continental European, Argentine, British, Chinese, India/South African, Israeli, Italian, and Swiss cord sets. Australia, Denmark, and Japan have special requirements for their medical products. Interpower manufactures products for Australia and Denmark, but not Japan at this time.

Australian Medical Requirements

Australian medical equipment used in Australia must meet AS/NZS 3200 series. There are no special requirements for cord sets, only preferences.

All Australian cord sets must use a plug approved to AS/NZS 3112 and a connector approved to IEC 60320-1, or the equivalent Australian standard. Cord sets for use in Australian medical applications are preferred by hospitals to have a clear plug and orange, flexible cable. These plugs and connectors must carry an Australian approval. Interpower cords are manufactured to the AS/NZS 3112 and IEC 60320-1 specifications.

Danish Medical Requirements

The Danish hospital-grade cord set, plug, and socket are recommended for use in medical applications. The specifications are in the standard SB 107-2-D1. The design of the plug and socket is to prevent "normal equipment" from being connected and disrupting the mains circuit in specific medical settings.

Medical Power Entry Modules

Medical equipment must meet special requirements. These requirements place special significance on fusing and filtering when selecting components used in medical equipment. Patient-connected medical equipment can be subjected to low-leakage current requirements. The use of a low-leakage filter in the 5µA range at 250VAC is desirable. In addition, fusing of both line and neutral connections may be required (i.e. double fusing).

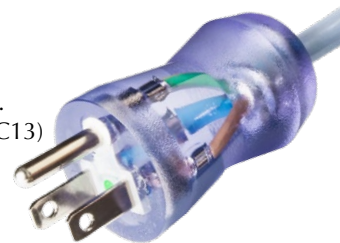
Hospital-Grade Power Cords & Cord Sets

North American Hospital-Grade Cords

While not required, clear plugs are preferred for patient connected equipment. This allows for quick and easy inspection of the internal connections. For more information on medical requirements, go to www.interpower.com/ic/hospitalgrade.html. All cord sets with C13 or a C19 will fit connector lock P/N 85910071 (IEC 60320 C13) or P/N 85910051 (IEC 60320 C19).

Clear North American Plugs With Black or Gray Cable

Available in a variety of lengths and colors. Also available in 16AWG or 14AWG.



Part Number	Length (meters)	Max. Temp.	Cable/Connector Color	Connector Style	Current/Voltage Rating	Conductor Size	Cable Description
86610301	3.05m/10.0'	60°C	Gray		10A/125VAC	3 x 18AWG	SJT
86610610	3.05m/10.0'	60°C	Black		10A/125VAC	3 x 18AWG	SJT
86617640	6.10m/20.0'	60°C	Black/Clear		13A/125VAC	3 x 16AWG	SJT
86610320	3.05m/10.0'	60°C	Gray		10A/125VAC	3 x 18AWG	SJT
86610620	3.05m/10.0'	60°C	Black		10A/125VAC	3 x 18AWG	SJT
86610330	3.05m/10.0'	60°C	Gray		10A/125VAC	3 x 18AWG	SJT
86610630	3.05m/10.0'	60°C	Black		10A/125VAC	3 x 18AWG	SJT
86610340	3.05m/10.0'	60°C	Gray		10A/125VAC	3 x 18AWG	SJT
86610640	3.05m/10.0'	60°C	Black		10A/125VAC	3 x 18AWG	SJT
86610350	3.05m/10.0'	60°C	Gray		10A/125VAC	3 x 18AWG	SJT
86610650	3.05m/10.0'	60°C	Black		10A/125VAC	3 x 18AWG	SJT
86610400	3.05m/10.0'	60°C	Gray		10A/125VAC	3 x 18AWG	SJT
86610601	3.05m/10.0'	60°C	Black		10A/125VAC	3 x 18AWG	SJT
86611610	3.05m/10.0'	60°C	Gray		15A/125VAC	3 x 14AWG	SJT

Gray North American Plugs With Gray Cable

Available in a variety of lengths and colors. Also available in 16AWG or 14AWG.



Part Number	Length (meters)	Max. Temp.	Cable/Connector Color	Connector Style	Current/Voltage Rating	Conductor Size	Cable Description
86610810	3.05m/10.0'	60°C	Gray		10A/125VAC	3 x 18AWG	SJT
86610820	3.05m/10.0'	60°C	Gray		10A/125VAC	3 x 18AWG	SJT
86610830	3.05m/10.0'	60°C	Gray		10A/125VAC	3 x 18AWG	SJT
86610840	3.05m/10.0'	60°C	Gray		10A/125VAC	3 x 18AWG	SJT
86610850	3.05m/10.0'	60°C	Gray		10A/125VAC	3 x 18AWG	SJT
86610801	3.05m/10.0'	60°C	Gray		10A/125VAC	3 x 18AWG	SJT

North American Hospital-Grade Cords, continued

Black North American Plugs With Black Cable



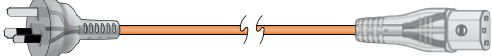
Available in a variety of lengths and colors. Also available in 16AWG or 14AWG.



Part Number	Length (meters)	Max. Temp.	Cable/Connector Color	Connector Style	Current/Voltage Rating	Conductor Size	Cable Description
86610710	3.05m/10.0'	60°C	Black	IEC 60320 C13 Interpower 052	10A/125VAC	3 x 18AWG	SJT
86610720	3.05m/10.0'	60°C	Black	IEC 60320 C13 Interpower 053	10A/125VAC	3 x 18AWG	SJT
86610730	3.05m/10.0'	60°C	Black	IEC 60320 C13 Interpower 055	10A/125VAC	3 x 18AWG	SJT
86610740	3.05m/10.0'	60°C	Black	IEC 60320 C13 Interpower 056	10A/125VAC	3 x 18AWG	SJT
86610750	3.05m/10.0'	60°C	Black	IEC 60320 C13 Interpower 057	10A/125VAC	3 x 18AWG	SJT
86610701	3.05m/10.0'	60°C	Black	Cable with three conductors	10A/125VAC	3 x 18AWG	SJT



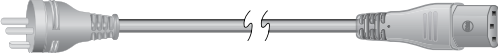






Australian Hospital-Grade Cords



For use at 10A/240VAC (50Hz) Hospital-Grade					Max Temp.	Color	Length	Rating	Approvals	<div></div> Recommended Connector Lock or Strain Relief
Available in a variety of lengths, colors, and cable sizes. Other connector angles available. For plug and connector specifications, see www.interpower.com . No minimum order requirements.										
86210150 Cord set with IEC 60320 C13 connector					70°C	Clear Plug/ Connector with Orange Cable	2.5m 8.2'	10A/250 VAC	Plug	Connector Locks 85910071 or 85910075
									Department of Fair Trading	
									Connector	
									Department of Fair Trading	
Cable Specifications	Conductor Size	Description	Wiring	Approx. O.D.						
	3 x 1.00mm ²	H05VVH3G1.00	—	6.3–8.0mm						


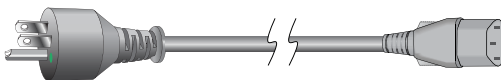


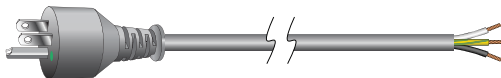

Danish Hospital-Grade Cords



For use at 10A/230VAC (50Hz) Hospital-Grade					Max Temp.	Color	Length	Rating	Approvals	  Recommended Connector Lock or Strain Relief
Available in a variety of lengths, colors, and cable sizes. Other connector angles available. For plug and connector specifications, see www.interpower.com . No minimum order requirements.										
86280810 Cord set with IEC 60320 C13 connector					70°C	Black	2.5m 8.2'	10A/250 VAC	Plug	Connector Locks 85910071 or 85910075
   									Ⓓ	
									Connector	
									Department of Fair Trading   	
Cable Specifications	Conductor Size	Description	Wiring	Approx. O.D.						
	3 x 1.50mm ²	H05VVH3G1.50	—	7.4–9.4mm						

Japanese Hospital-Grade Cords



For use at 12A/100VAC (50–60Hz) Hospital-Grade					Max Temp.	Color	Length	Rating	Approvals	 Recommended Connector Lock or Strain Relief
For plug and connector specifications, see www.interpower.com . No minimum order requirements.										
86589100 Hospital-grade cord set with IEC 60320 C13 connector					60°C	Gray	2.5m 8.2'	12A/125 VAC	Plug	—
										
									Connector	
										
Cable Specifications	Conductor Size	Description	Wiring	Approx. O.D.						
	3 x 1.25mm²	VCTF	—	7.8mm						
86589110 Hospital-grade power cord with 50/10mm strip					60°C	Gray	2.5m 8.2'	12A/125 VAC	Plug	Strain Reliefs 85820541 or 85820121
										
									Connector	
									N/A	
Cable Specifications	Conductor Size	Description	Wiring	Approx. O.D.						
	3 x 1.25mm²	VCTF	BWG/Y*	7.8mm						

* BWG/Y: black/white/green-yellow




Connector Locks


Connector locks secure cord sets to IEC 60320 power inlets to help prevent accidental power interruption. Cord sets can be easily removed without disrupting the connector lock. Each connector lock is designed for a specific connector style. The connector locks can only be used with the screw-mounted power inlets.

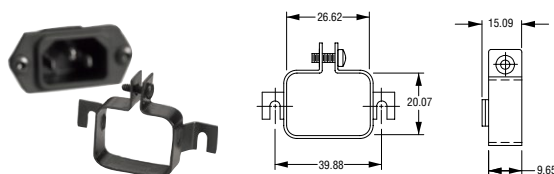


For Cord Sets Rated 10/15A

For use with Interpower IEC 60320 C13 connector molds 052, 053, 055, 056, and 057. For North American and international applications.

85910071 
black finish

85910075 
clear finish

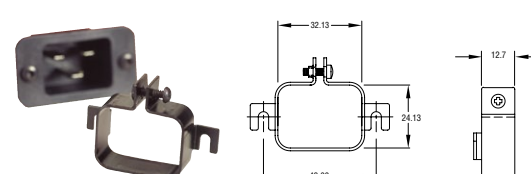


For Cord Sets Rated 16/20A

For use with Interpower IEC 60320 C19 connector molds 013, 015, 068, 069, and 070. For North American and international applications.

85910051 
black finish

85910055 
clear finish





Interpower Low-Leakage Modules

Interpower 2-Function Low-Leakage Modules

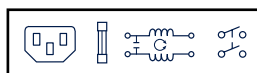
For Class I applications, these modules include an IEC 60320 C20 power inlet and a filter to provide RFI suppression of line-to-line ground noise. See www.interpower.com for schematics and filter performance.




Screw-Mount	Part Number	Fuse Type	Contact Style
	83550020	—	6.3mm QDs
	Ratings/Approvals		
	Int'l 16A/250VAC 	North American 20A/250VAC 	

Screw-Mount	Part Number	Fuse Type	Contact Style
	83530593	—	6.3mm QDs
	Ratings/Approvals		
	Int'l 6A/250VAC 	North American 8A 115/250VAC 	

Interpower 4-Function Low-Leakage Modules

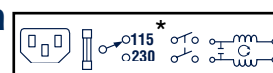


Features: Easy to accommodate differences between international and North American input voltages and fusing. See www.interpower.com for schematics and filter performance.


Snap-In Mount	Part Number	Fuse Type	Contact Style
	83544050	Single-Fuse	4.8mm QDs
	Ratings/Approvals		
	Int'l 6A/250VAC 	North American 6A 120/250VAC 	

Modules contain low-leakage 10A filter for medical applications.

Interpower 5-Function Low-Leakage Modules



Features: Voltage selector (115/230VAC), filter, switch, inlet, and fusing. Easy to accommodate differences between international and North American input voltages and fusing. See www.interpower.com for schematics and filter performance.

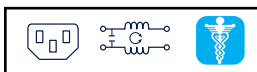
Screw-Mount	Part Number	Fuse Type	Contact Style
	83545020	Double-Fuse	4.8mm QDs
	83545030	Single-Fuse	4.8mm QDs
	83545070 (No voltage selector)	Double-Fuse	4.8mm QDs
	Ratings/Approvals		
	Int'l 10A/250VAC 	North American 10A 120/250VAC 	

Modules contain low-leakage 10A filter for medical applications.


Note: To meet IEC 60417 and UL Standards, the orientation of the "on" mark, a straight line (I), should be mounted in the vertical position.

* Connections to transformer are made by equipment designer and manufacturer.

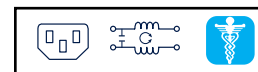
Low-leakage Sheet F Module




For Class I applications, these modules include an IEC 60320 Sheet F power outlet and a general or hospital-grade purpose filter to provide RFI suppression of line-to-line ground noise. See www.interpower.com for schematics and filter performance.

Screw-Mount	Part Number	Contact Style
	83550040	6.3mm QDs
	Ratings/Approvals	
	Int'l 10A/250VAC 	North American 15A/250VAC

Low-leakage Sheet J Module




For Class I applications, these modules include an IEC 60320 Sheet F power outlet and a general or hospital-grade purpose filter to provide RFI suppression of line-to-line ground noise. See www.interpower.com for schematics and filter performance.


Screw-Mount	Part Number	Contact Style
	83550060	6.3mm QDs
	Ratings/Approvals	
	Int'l 16A/250VAC 	North American 20A/250VAC


Hospital-Grade Re-Wireable Plugs & Sockets


North American Plugs & Sockets




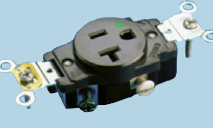
Hospital-Grade Plug	
	
Part Number	88030270
NEMA Type	5-15
Color	Clear/White
Rating	15A/125VAC

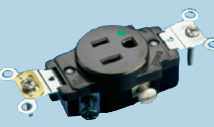
Hospital-Grade Plug	
	
Part Number	88030390
NEMA Type	5-20
Color	Clear/White
Rating	20A/125VAC


Hospital-Grade Plug	
	
Part Number	88030270A
NEMA Type	5-15
Color	Clear/White
Rating	15A/125VAC


Hospital-Grade Connector	
	
Part Number	88030400
NEMA Type	5-20
Color	Clear/White
Rating	20A/125VAC


Hospital-Grade Connector	
	
Part Number	88030280
NEMA Type	5-15
Color	Clear/White
Rating	15A/125VAC


Hospital-Grade Socket	
	
Part Number	88030580
NEMA Type	5-20
Color	Brown
Rating	20A/125VAC


Hospital-Grade Socket	
	
Part Number	88030290
NEMA Type	5-15
Color	Brown
Rating	15A/125VAC


Hospital-Grade Duplex Socket	
	
Part Number	88030940
NEMA Type	5-20
Color	Brown
Rating	20A/125VAC

Hospital-Grade Duplex Socket	
	
Part Number	88030890
NEMA Type	5-15
Color	Brown
Rating	15A/125VAC

Hospital-Grade Plug	
	
Part Number	88030410
NEMA Type	6-20
Color	Clear/White
Rating	20A/250VAC



Hospital-Grade Plug	
	
Part Number	88030370
NEMA Type	6-15
Color	Clear/White
Rating	15A/250VAC



Hospital-Grade Connector	
	
Part Number	88030420
NEMA Type	6-20
Color	Clear/White
Rating	20A/250VAC

Hospital-Grade Duplex Socket	
	
Part Number	88030830
Type	6-15
Color	Brown
Rating	15A/250VAC

Australian Plugs







Hospital-Grade Plug	
	
Part Number	88010860
Type	Afsnit 107-2-D1
Color	Clear
Rating	15A/250VAC
Approvals	

Hospital-Grade Plug	
	
Part Number	88010712
Type	AS/NZS 3112
Color	Clear
Rating	10A/250VAC
Approvals	

Danish Plug & Socket



Hospital-Grade Plug	
	
Part Number	88010940
Type	Afsnit 107-2-D1
Color	Gray
Rating	16A/250VAC
Approvals	

Hospital-Grade Socket	
	
Part Number	88010910
Type	Afsnit 107-2-D1
Color	Gray
Rating	10A/250VAC
Approvals	



Custom Kits

Interpower offers flexible shipping options for the Accessory Power Strips and other products. Specialize a kit with any combination of power strips, jumper cord sets, North American or international cord sets, and any other Interpower products. All of this kitted under one part number allows for convenient and efficient assembly and easier ordering and inventory control.

EXAMPLE OF A KIT:

- 1 Accessory power strip
- 1 country specific cord set (per your requirements)
- Jumper cord sets

Power Cord and Cord Set Molding Options

- Available in a variety of lengths and colors
- We have all the connector angles
- Different size and types of cable (SVT, SJT, H05, etc.)
- Made-to-order cable terminations for power cords
- Strain reliefs
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- Ferrules



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