

Product Facts

- Suitable for low temperature and/or autoclave sterilization
- 22 conductor cable supports single chip or 3-chip cameras
- Variety of connector sizes to accommodate compatibility and performance requirements
- Minimal engineering expense by selecting from standard options

**Suitable for repeated sterilization procedures**

Fully engineered and design qualified BASIS video cable assemblies take advantage of volume purchasing, global manufacturing and field tested components to provide an efficient alternative to custom cable assemblies. Options include cable jacket and flex relief materials suitable for low temperature or autoclave sterilization processes and a variety of connector sizes. Cable assembly components are in stock for quick turn assembly to the OEM's wiring scheme.

Performance

Cables and flex-reliefs are available with either STERITHANE jackets, silicone or STERILENE enhanced silicone jackets. STERITHANE jackets have excellent crush and cut-through resistance. Cables with STERILENE enhanced silicone jackets add the benefit of enhanced cosmetics and ergonomics.

All assemblies are designed to withstand 500 STERIS cycles, 250 STERRAD cycles, EtO and CIDEX+ processes. Assemblies with silicone or STERILENE cable jackets are designed to withstand over 1,000 autoclave cycles.

To support U.S. or European standards, the entire cable assembly system including all printed circuits and connectors is designed for EMI/RFI containment with continuous end-to-end shielding.

Highly flexible and durable, BASIS video cable assemblies have been tested to 250,000 cycles in destructive, flex/torque tests.

Cable Construction

A hybrid cable of coaxes and singles is designed to accommodate a broad range of power and signal demands. Cables with STERITHANE cable jackets will withstand EtO and CIDEX+, STERIS or STERRAD processes. For cables that

must also withstand the temperature and pressure of repeated autoclave processing, select cables with silicone or STERILENE enhanced silicone jackets.

CCU Interface

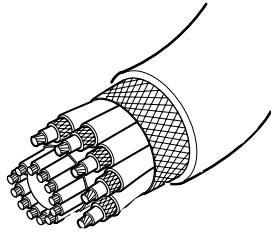
The BASIS video platform offers a choice of connectors to mate with the CCU receptacle (also available). Card-edge connectors are an economical alternative to traditional metal circular connectors and are suitable for EtO and low temperature sterilization processes. Metal circular connectors provide a robust, sealable interconnect that withstands the heat and pressure of the autoclave.

For More Information

For the latest additions to the product family, access to technical data or to contact a product specialist go to:

www.tycoelectronics.com/pi/basis

Configurations and options



Cable Configuration

Number of conductors	22	
50 Ω Coaxes	10, 34 AWG, high strength alloy	
Singles	12, 34 AWG, high strength alloy	
Overall Shield	Braid	
Jacket Color	Black	
Jacket material	STERITHANE	Silicone or STERILENE
Cable O.D.	5.84 mm (.230 in)	6.35 mm (.250 in)

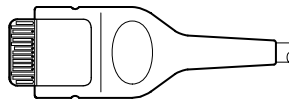
Video Camera Interface

Connecting the cable's distal end to the surgical video camera is done with a flex circuit. Alternately, the cable end is offered as stripped and prepped. For a field replaceable assembly, a metal circular connector can be used on the camera end.

Soak Caps

Push-on soak caps, fabricated from nickel/ chrome plated brass, keep the contacts from the sterilization media, leaving the connector shell and the sliding sleeve exposed to the sterilant. The aluminum screw-on style covers the entire connector from sterilant exposure and damage. Both caps are attached to the assembly by a coated metal lanyard.

Proximal Termination



Card-Edge (Receptacle also available)
30 pos. • Note: Only used on STERITHANE cables



PI CIRCULAR connector S 1.5
12 or 9 pos. • locking

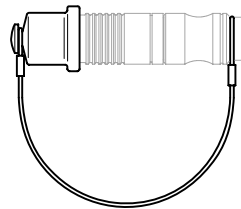


PI CIRCULAR connector S 2
19 pos. • locking

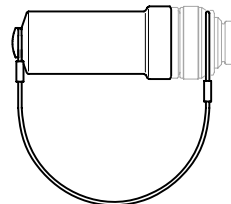


PI CIRCULAR connector S 3
27 pos. • locking or non-locking

Soak Caps



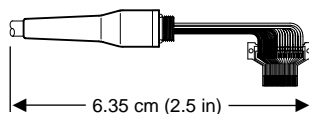
Push-on



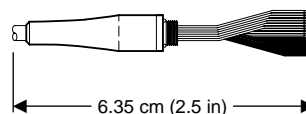
Screw-on

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Distal Termination



0.5 mm (.020 in) flex circuit
26 pos. • Note: Mates to Molex
0.5 mm FEC connector



Strip and prep
26 pos. • Note: Mates to Molex
0.5 mm FEC connector

Metal circular

For metal circular connectors, see Proximal Termination table at left.
Select 12, 19 or 27 pos. • Note: Select locking or non-locking