

HIGH VOLTAGE INTERCONNECT SOLUTIONS



LEGACY GROUP

The Legacy Group of connectors provide a wide selection of single pin and multi-pin high voltage connectors and cable assemblies. These products, some of which have been in production for more than 40 years, reflect the legacy of Teledyne Reynolds' strong commitment to engineering, quality and customer service.

FEATURES:

- Bayonet, threaded and push-on/pull-off couplings
- LGH™ compatible designs
- Connector kits available for customer assembly to wire
- Widest variety of connector designs to meet any HV need

LGH is a trademark of Tyco AMP



ADVANCED GROUP

The Advanced Group consists of a series of nine connector families that use the Advanced Interface Sealing System patented by Teledyne Reynolds. This allows for much smaller high voltage connector designs which can operate at 70,000 feet over a temperature range of -55°C to 125°C.

FEATURES:

- Replaceable interface seals allow for increased life
- Hermetic feedthroughs available
- Ideal for use in space applications
- Highly customizable



CERAMIC GROUP

Teledyne Reynolds' ceramic-to-metal receptacles and header assemblies use only the best quality, 94% (minimum) alumina ceramic metallized with moly-manganese and nickel plated. Only high grade metals are used for contacts, shells, bellows and braze materials, making these assemblies ideal high voltage receptacles for containment of dielectric gases or fluids when subjected to the rigors of aerospace, semiconductor manufacturing and spaceborne environments.

FEATURES:

- Product leak rates are 1×10^{-8} cc/sec He at 1 ATM of differential pressure
- Both single pin and multi-pin designs are available
- Custom designs available



WIRE AND CABLE PRODUCTS

Teledyne Reynolds offers a wide range of Ready-To-Bond etched or coated wire including high voltage Quiet Line R.F. attenuating cable, Micro Flex high strand count high voltage wire and HI-bus insulated high voltage bus wire.

FEATURES:

- 100% corona detection and 100% optical inspection available
- Low outgassing design
- High flex rate capabilities
- Rated for operation at 70,000 feet.



TELEDYNE REYNOLDS
A Division of Teledyne Limited
A Teledyne Technologies Company

Navigation House Canal View Road
Newbury Berkshire RG14 5UR UK

Tel: +44 1635 262200 Fax: +44 1635 30920

Email: trlsales@teledyne.com www.teledynereynolds.co.uk

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STANDARD CONNECTOR PRODUCT MATRIX

Series	Voltage Rating (kV)	At 70,000 ft	Number of Contacts	Coupling Method	Shielded	Ceramic Feedthrough	Bag Assembly*	Temperature Rating (°C)
600	5	•	1	Threaded	•	•	•	-55 to 125
600 S	5†	†	1	Threaded	•	•		-55 to 125
610	5	•	1	Threaded	•		•	-55 to 125
JR	6	•	4 & 6	Push-on/Pull-off	•			-55 to 125
31	6.5		1	Bayonet	•		•	-40 to 85
1205	7.5	•	5	Bayonet	•		•	-55 to 105
531	10		1	Bayonet	•		•	-40 to 85
730/830	10	•	1	Threaded		•	•	-55 to 125
C 730	10	•	1	Threaded	•			-55 to 95
1407	10	•	7	Bayonet	•		•	-55 to 105
Pee-Wee	12	•	1	Push-on/Pull-off & Threaded		•		-55 to 125
Magnum**	12	•	6	Bayonet	•	•		-55 to 125
Magnum Plus**	14	•	6	Bayonet	•	•		-55 to 125
310	15	•	1	Bayonet	•		•	-40 to 85
311	15	•	1	Bayonet	•		•	-40 to 85
737	15	•	1	Threaded			•	-55 to 125
C 737	15	•	1	Threaded	•			-55 to 95
SID	15	•	1	Push-on/Pull-off				-55 to 95
Century	15	•	1	Threaded	•	•		-55 to 125
1807	15	•	7	Bayonet & Threaded	•		•	-55 to 105
HVID	17 - 60		1	Push-on/Pull-off			•	-40 to 85
Century Plus	18	•	1	Threaded	•	•		-55 to 125
521	20	•	1	Bayonet	•		•	-40 to 85
720	20	•	1	Threaded		•	•	-55 to 125
C 720	20	•	1	Threaded	•			-55 to 95
727	25	•	1	Threaded			•	-55 to 125
C 727	25	•	1	Threaded	•			-55 to 95
Maxxum	25	•	1	Threaded	•	•		-55 to 125
C 735	30	•	1	Threaded	•			-55 to 95
Max	30	•	1	Threaded	•			-55 to 125
403	35	•	3	Bayonet	•			-55 to 125
401**	40	•	1	Bayonet	•			-55 to 125
C 740	40	•	1	Threaded	•			-55 to 95
R75	40 - 75		1	Threaded	•			-40 to 85
C 750	50	•	1	Threaded	•			-55 to 95

Teledyne Reynolds welcomes the opportunity to submit alternate design proposals where our standard items do not satisfy your requirements.

† Designed only to operate at a minimum vacuum of 10 millitorr to deep space.

* Bag assemblies enable customers to build their own cable assemblies using assembly instructions found at www.teledynereynolds.co.uk. Wire is not included in kits and may be ordered separately from Teledyne Reynolds. Although this option is available, Teledyne Reynolds highly recommends purchasing already built cable assemblies to ensure the reliability of the products.

** The Magnum, Magnum Plus and the 401 Series are subject to the export jurisdiction of the U.S. Department of State and may require export license or other approval from the U.S. Department of State.

To learn more about the our complete line of connectors and other Teledyne Reynolds product offerings please visit www.teledynereynolds.co.uk



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