

**C 730 SERIES** | 10 kVDC  
**C 737 SERIES** | 15 kVDC  
**C 720 SERIES** | 20 kVDC

70,000 FT

-55° TO 95°C

## C SERIES

In 1997, Teledyne Reynolds, Inc. acquired the RLA series and other connector product lines from Rowe Industries, Inc. The RLA series has been renamed C series.

C series high voltage lead assemblies and receptacles are widely used in CRT displays, ECM equipment, power supplies, Radar and almost any application where high voltage components need to be interconnected. The plug end is molded onto a desired length of silicone cable and can be ordered single-ended, double-ended or with shielding.

## RECEPTACLES

(Dimensions shown as in/mm)

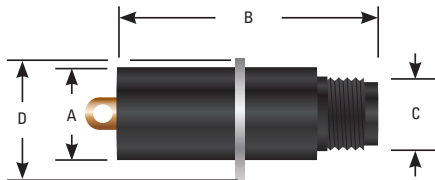
### Front Mount

**C 730 • 10 kVDC**

**LGH 1/2I**

**2RC1505**

• **Mounting:** Solder Flange



### Sealed, Front Mount

**C 737 • 15 kVDC**

**LGH 1/2LI**

**2RC1515**

• **Mounting:** Solder Flange

• **Max. Leak Rate:** 1x10<sup>-8</sup>cc/s He @1 ATM differential pressure

(• = Same value as above)

SERIES	"A"	"B"	"C"	"D"
C 730	Ø.380 / 9.65	.620 / 15.7	.310 / 7.90	Ø.570 / 14.4
C 737	•	1.00 / 25.4	•	Ø.562 / 14.3

### In-Line

**C 730 • 10 kVDC**

**LGH 1/2I**

**3RC1505**

**C 737 • 15 kVDC**

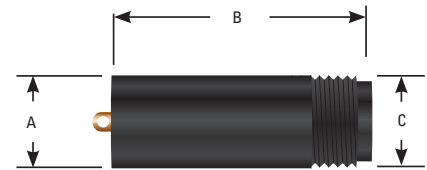
**LGH 1/2LI**

**13RC1515**

**C 720 • 20 kVDC**

**LGH LI**

**3RC1525**



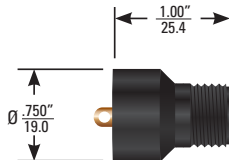
SERIES	"A"	"B"	"C"
C 730	Ø.380 / 9.60	.630 / 15.7	Ø.310 / 7.90
C 737	•	1.00 / 25.4	•
C 720	Ø.500 / 12.7	•	Ø.500 / 12.7

### In-Line

**C 720 • 20 kVDC**

**LGH LI**

**RC1525**



## CABLE ASSEMBLIES

(Dimensions shown as in/mm)

### Positive Stop (ferrule)

#### Single-Ended

**C 730 • 10 kVDC**

**LGH 1/2I**

**7RC1500**

**C 737 • 15 kVDC**

**LGH 1/2LI**

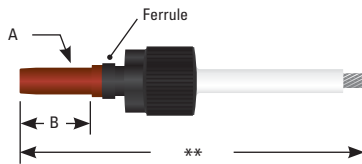
**7RC1510**

**C 720 • 20 kVDC**

**LGH LI**

**21RC1520**

(• = Same value as above)



SERIES	"A"	"B"	WIRE P/N
C 730	Ø.186 / 4.70	.530 / 13.4	178-9863
C 737	Ø.191 / 4.85	.890 / 22.6	178-7200
C 720	Ø.287 / 7.20	•	R790-3516-6

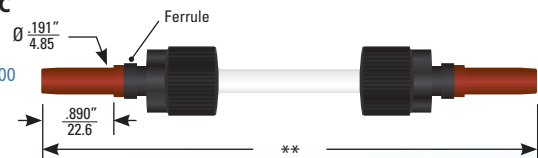
#### Double-Ended

**C 737 • 15 kVDC**

**LGH 1/2LI**

**178-7319**

• Uses Wire 178-7200



**\*\*Cable Assembly Ordering Information:** All cable assembly cable lengths are to be specified in inches only. For example, to order part number 178-6027 with a cable length of 10 feet 8 inches the cable assembly part number would be specified as 178-6027-128N.

• **Note:** Product numbers and specs subject to change without notice. • Products listed represent only a small selection of Teledyne Reynolds' products please visit [www.teledynereynolds.com](http://www.teledynereynolds.com) for the most up to date product information. • Contact Teledyne Reynolds' Engineering to discuss custom designs. **WARNING:** Connectors should **NEVER** be handled mated or unmated when voltage is applied.

**C 730 SERIES** | 10 kVDC  
**C 737 SERIES** | 15 kVDC  
**C 720 SERIES** | 20 kVDC

70,000 FT

-55° TO 95°C

**CABLE ASSEMBLIES**

(Dimensions shown as in/mm)

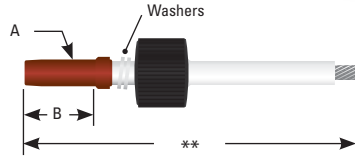
**Non-Positive Stop (washers)**

**Single-Ended**

**C 730 • 10 kVDC**  
**LGH 1/2I**  
**RC1500**

**C 737 • 15 kVDC**  
**LGH 1/2LI**  
**RC1510**

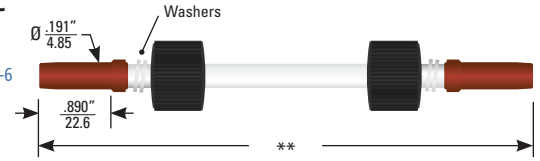
**C 720 • 20 kVDC**  
**LGH LI**  
**RC1520**



**Double-Ended**

**C 720 • 20 kVDC**  
**LGH LI**  
**R1520**

• Uses Wire R790-3561-6

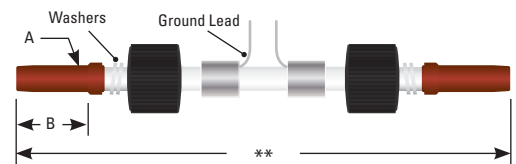


SERIES	"A"	"B"	WIRE P/N
C 730	Ø.186 / 4.70	.530 / 13.4	R790-3516-6
C 737	Ø.191 / 4.85	.890 / 22.6	•
C 720	Ø.287 / 7.20	•	•

**Double-Ended, Shielded**

**C 730 • 10 kVDC**  
**LGH 1/2I**  
**3R1500**

**C 737 • 15 kVDC**  
**LGH 1/2LI**  
**2RC1510**

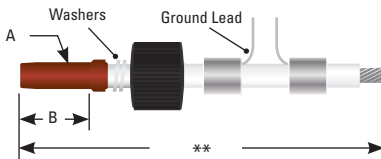


SERIES	"A"	"B"	WIRE P/N
C 730	Ø.186 / 4.70	.530 / 13.4	178-7200
C 737	Ø.191 / 4.85	.890 / 22.6	178-6195-9

**Single-Ended, Shielded**

**C 730 • 10 kVDC**  
**LGH 1/2I**  
**2RC1500**

**C 720 • 20 kVDC**  
**LGH LI**  
**178-6094**



SERIES	"A"	"B"	WIRE P/N
C 730	Ø.186 / 4.70	.530 / 13.4	R790-3516-2
C 720	Ø.287 / 7.0	.880 / 22.6	•

**SERIES SPECIFICATIONS**

(• = Same value as above)

Series	Voltage Rating (kVDC)	Altitude Rating (ft)	Operating Temp. (°C)	Current Rating (Amp)	Receptacle Insulator Material	Plug Insulator Material	Coupling Style	Coupling Nut Material/Finish	Plug Contact Material/Finish (Socket)	Recept. Contact Material/Finish (Pin)	Wire Type	Wire Insulation	Braid Termination	Test Voltage @ 70,000 ft	Test Voltage @ Sea Level
<b>C 730</b>	10	70,000	-55 to 95	10	Plastic	Plastic	Threaded	Plastic	BeCu/Au with CRES hood	Brass/Tin	Non-Shielded	N/A	N/A	15	N/A
<b>C 737</b>	15	•	•	•	•	•	•	•	•	•	•	•	•	18	•
<b>C 720</b>	20	•	•	•	•	•	•	•	•	•	•	•	•	25	•

**WIRE SPECIFICATIONS**

Part #	Operating Voltage (kVDC)	Conductor			Insulation		Shielding			Jacket		Impedance Ω	Attenuation dB/100 ft @ 400mhz	Capacitance pF/FT (Nom.) @1k HZ
		AWG	Strands	Plating	Material	ø in./mm	AWG	Plating	ø in./mm	Material	ø in./mm			
<b>178-7200</b>	20	16	41/32	SPC	Silicone	0.165 / 4.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>178-6195-9</b>	25	•	26/30	TPC	•	0.266 / 6.76	•	•	•	•	•	•	•	•



**C 727 SERIES** | 25 kVDC  
**C 735 SERIES** | 30 kVDC  
**C 740 SERIES** | 40 kVDC  
**C 750 SERIES** | 50 kVDC

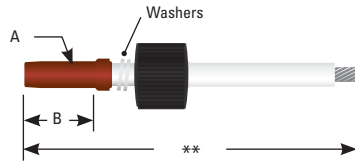
70,000 FT

-55° TO 95°C

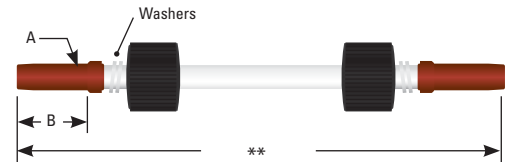
**CABLE ASSEMBLIES**

**Non-Positive Stop (washers)**

**C 727 • 25 kVDC**  
**LGH 1LI**  
**RC1530**  
**C 735 • 30 kVDC**  
**LGH 2I**  
**RC1540**  
**C 740 • 40 kVDC**  
**LGH 3I**  
**RC1550**  
**C 750 • 50 kVDC**  
**LGH 4I**  
**RC1560**



**C 727 • 25 kVDC**  
**LGH 1LI**  
**R1530**  
**C 735 • 30 kVDC**  
**LGH 2I**  
**R1540**  
**C 740 • 40 kVDC**  
**LGH 3I**  
**3R1550**  
**C 750 • 50 kVDC**  
**LGH 4I**  
**3R1560**

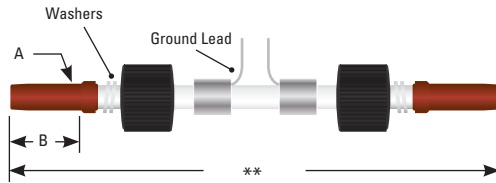


(• = Same value as above)

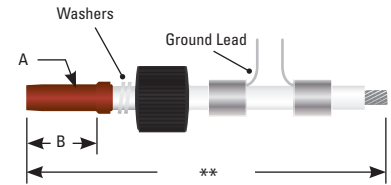
SERIES	"A"	"B"	WIRE P/N
C 727	Ø.287 / 7.20	1.69 / 42.9	178-6147
C 735	•	1.43 / 36.3	•
C 740	•	1.83 / 45.7	•
C 750	Ø.435 / 11.0	2.00 / 50.8	178-6181

SERIES	"A"	"B"	WIRE P/N
C 727	Ø.287 / 7.20	1.69 / 42.9	178-8147
C 735	•	1.43 / 36.3	•
C 740	•	1.83 / 45.7	•
C 750	Ø.435 / 11.0	2.00 / 50.8	•

**C 727 • 25 kVDC**  
**LGH 1LI**  
**2R1530**  
**C 750 • 50 kVDC**  
**LGH 4I**  
**2R1560**



**C 727 • 25 kVDC**  
**LGH 1LI**  
**2RC1530**  
**C 750 • 50 kVDC**  
**LGH 4I**  
**2RC1560**



SERIES	"A"	"B"	WIRE P/N
C 727	Ø.287 / 7.20	1.69 / 42.9	178-6147
C 750	Ø.435 / 11.0	2.00 / 50.8	178-6180

SERIES	"A"	"B"	WIRE P/N
C 727	Ø.287 / 7.20	1.69 / 42.9	178-6147
C 750	Ø.435 / 11.0	2.00 / 50.8	178-6180

**SERIES SPECIFICATIONS**

(• = Same value as above)

Series	Voltage Rating (kVDC)	Altitude Rating (ft)	Operating Temp. (°C)	Current Rating (Amp)	Receptacle Insulator Material	Plug Insulator Material	Coupling Style	Coupling Nut Material/Finish	Plug Contact Material/Finish (Socket)	Recept. Contact Material/Finish (Pin)	Wire Type	Wire Insulation	Braid Termination	Test Voltage @ 70,000 ft	Test Voltage @ Sea Level
<b>C 727</b>	20	70,000	-55 to 95	10	Plastic	Silicone	Threaded	Plastic	BeCu/Au with CRES hood	Brass/Tin	Non-Shielded	N/A	N/A	35	N/A
<b>C 735</b>	30	•	•	•	•	•	•	•	•	•	•	•	•	45	•
<b>C 740</b>	40	•	•	•	•	•	•	•	•	•	•	•	•	50	•
<b>C 750</b>	50	•	•	•	•	•	•	•	•	•	•	•	•	60	•

**WIRE SPECIFICATIONS**

Part #	Operating Voltage (kVDC)	Conductor			Insulation		Shielding			Jacket		Impedance Ω	Attenuation dB/100 ft @ 400mhz	Capacitance pF/FT (Nom.) @1k HZ
		AWG	Strands	Plating	Material	ø in./mm	AWG	Plating	ø in./mm	Material	ø in./mm			
<b>178-6147</b>	45	16	19/29	SPC	Silicone	0.300 / 7.62	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>178-6181</b>	60	14	19/27	TPC	•	0.390 / 9.91	•	•	•	•	•	•	•	•
<b>178-6180</b>	•	*	•	•	•	•	TPC	TPC	0.430 / 10.9	NOMEX®	0.475 / 12.07	•	•	•

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