

NEW
BioCompatic.
MATERIAL

WIRES AND CABLES FOR LEMO & REDEL CONNECTORS



NORTHWIRE[®]
INC

A LEMO Group Company

Standard wires and multiconductors cables for LEMO & REDEL connectors

In 2014, LEMO Group acquired the US cable manufacturer Northwire, Inc., for the purpose of better serving both companies' customers through fully integrated, comprehensive cable connector solutions. Northwire and LEMO together are now able to offer custom wire and cable, retractable cables, cable assemblies and connectors hand in hand for a multitude of markets.

Why choose Northwire?

Northwire leads the industry in quick turnaround, with fast delivery of bulk cable and retractable cords with no minimum order length or quantity requirements.

Northwire cable engineering company is ISO 13485:2003, ISO 9001:2008, and SAE AS9100C certified.

Northwire's quality lab is qualified by CSA GROUP as a testing facility for supervised manufacturer's testing for certification program based on ISO 17025:2005. Testing is conducted by third parties and is certified to meet the standards of UL, CSA, IEEE, SAE and more.

Northwire works closely with strategic supply chain partners to offer USP and FDA approved, RoHS2 and REACH compliant and food grade materials.

Northwire cables expertise also include: retractile, high flex life, energy applications, ITC/PLC, underwater cable, signal- control & communication, UL2250, UL13, UL1277, UL444, UL 62, and many more...

NORTHWIRE custom technical cable

Innovative solutions exceeding the demands of your changing world.

With many years of rapid response manufacturing expertise, Northwire, Inc. is pleased to offer:

- **Fast quote service**
- **No minimum order quantity or length requirements**
- **Free sample wire and cable**
- **Rapid cable prototyping**

NWI leverages professional certifications in Lean, Six Sigma, Project Management and the American Society for Quality to achieve the highest level of quality with the shortest lead times for custom technical products:

- **Wire, cable & retractile cords**
- **Assemblies, connectors & harnesses**
- **Contract Manufacturing**
- **Cable stocking in Europe and USA**



Find out more:

<http://www.northwire.com/technical-resources/custom-capabilities/>



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BioCompatic®

A next-Generation Biocompatibility solution

As Northwire's R&D engineers and Subject Matter Experts (SMEs) developed the project charter for the alternative to traditional silicone jacketing, the voice of the customer and the demands of the market shaped the solution.

Biocompatibility and resilience were vital, but this new product had to be market-ready much faster than silicone – and at a lower cost.

BioCompatic achieves optimal biocompatibility under USP Class VI, ISO 10993-5, REACH, and RoHS2 by passing a battery of tests that include analysis of cytotoxicity, systemic toxicity, intracutaneous response, muscle implantation response, and beyond.

Additionally, BioCompatic cable systems offer features such as:

- **High flexibility and durability for a long lifetime**
- **Excellent endurance to sterilization**
- **Bisphenol, phthalate, and halogen free**
- **Resistance to chemicals, abrasion, crush, and cut**
- **Retractable options**
- **Wide range of durometer hardness**
- **Low co-efficient of friction – soft and smooth surfaces that do not bind or catch on itself or patients**
- **Custom printing that withstands autoclave and other sterilization procedures**

With Northwire's rapid response capabilities and mindful design, BioCompatic saves customers time and money. No curing process is needed, shortening lead times and lowering expenses.

Combined with the cable's robust resistance to environmental factors and sterilization, BioCompatic offers a quick, reliable, and cost-effective path to market.

Ideal for a diverse range of use

Due to its ability to meet stringent biocompatibility requirements while retaining strength and flexibility, BioCompatic is well suited to a wide variety of life science and medical cable assembly applications, including:

- **Patient monitoring cables**
- **Endoscopic reusable/ sterilized assemblies**
- **Imaging cables**
- **Diagnostic tools**
- **Catheter applications**
- **Dental cables**
- **Surgical cables – power & signal • Single-use cables**
- **Drug delivery systems**
- **Defibrillation systems**
- **Therapeutic cables**

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Table 1

Code	Total number of conductors same AWG
02	2 conductors
...	...
99	99 conductors

Table 2

Code	Jacket material
P	PVC flexible with Polypropylene insulation
Q	Medical Grade TPR (SBS/SEBS) (Biocompatic®)
...	Other jacket material on request

Table 3

Code	Jacket color	
A	Blue	○
B	White	○
G	Grey RAL 7001	●
J	Yellow	○
N	Black RAL 9005	●
R	Red	○
V	Green	○
...	Other jacket color on request	

● First choice alternative
○ Special order alternative

Table 4

Code	Shielding
C	Boxwave braid (80% min coverage)
Z	Unshielded
...	Other shielding on request

Table 5

Code	AWG
A	6
B	8
C	10
D	12
E	14
F	16
G	18
H	20
I	22
J	24
K	26
L	28
M	30

Cable Characteristics

Standard PVC cables

Characteristics	AWG						
	30	28	22	20	18	14	12
Resistivity (mOhm/m)	365	232	57.4	35.7	22.6	9.2	5.6
Bend radius	15x outer diameter						
Operating voltage	300 V						
Max. temperature	80°C						

Biocompatic™ Medical grade TPR cables (not UL listed)

Test description		Results
Autoclave steam sterilization 150 cycles (30 min at 134°C)		Pass
Chemical resistance (10 min exposure)	Betadine (NEAT) / Cidex OPA (NEAT)	Pass
	Virex II 256 (0.4%)	Pass
	Clorox Healthcare Bleach (100%)	Pass
	Isopropyl Alcohol (99%)	Pass
	Hydrochloric Acid (36%)	Pass
Crush test (50lb. Gurney Wheel Crushes)	Round 1 (cycles)	94.988
	Round 2 (cycles)	143.500+

Wire construction and dimensions

AWG	Stranding	Copper ø wire max (mm)	Wire section mm²
12	19 x 0.48 mm	2.29	3.080
14	19 x 0.38 mm	1.78	1.940
18	19 x 0.25 mm	1.21	0.890
20	19 x 0.180 mm	0.88	0.510
22	19 x 0.15 mm	0.74	0.340
28	19 x 0.10 mm	0.38	0.089
30	19 x 0.064 mm	0.30	0.055

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PVC multiconductor cable part numbers for LEMO connectors



LEMO connectors

NORTHWIRE cables

	Type	# contacts	Pin ø	Collet type	Bend relief	AWG	Rated current ¹⁾	Cond. OD	Jacket	Jacket OD	Cable part number for PVC	BioCompatic®
00	302	2	0.5	D35	GMD.00.028.DG	28	2.4	0.39	PVC	3.0	CMN.02.T28.030PGCE ¹⁾	
	303	3	0.5	D35	GMD.00.028.DG	28	2.4	0.39	PVC	3.1	CMN.03.T28.031PGCE ¹⁾	
	304	4	0.5	D35	GMD.00.028.DG	28	2.4	0.39	PVC	3.1	CMN.04.T28.031PGCE ¹⁾	
	305	5	0.35	D35	GMD.00.028.DG	30	1.6	0.30	PVC	2.9	CMN.05.T30.029PGCE ¹⁾	
	306	6	0.35	D35	GMD.00.028.DG	30	1.4	0.30	PVC	3.1	CMN.06.T30.031PGCE ¹⁾	
0B	302	2	0.9	D52	GMA.0B.045.DG	22	6.4	0.72	PVC	4.7	CMN.02.T22.047PGCE	
	303	3	0.9	D52	GMA.0B.045.DG	22	6.4	0.72	PVC	4.9	CMN.03.T22.049PGCE	
	304	4	0.7	D52	GMA.0B.045.DG	22	6.4	0.72	PVC	4.7	CMN.04.T22.047PGCE	
	305	5	0.7	D52	GMA.0B.045.DG	22	6.4	0.72	PVC	5.1	CMN.05.T22.051PGCE	
	306	6	0.5	D52	GMA.0B.045.DG	28	2.1	0.39	PVC	4.4	CMN.06.T28.044PGCE	
	307	7	0.5	D52	GMA.0B.045.DG	28	2.1	0.39	PVC	4.4	CMN.07.T28.044PGCE	
	309	9	0.5	D52	GMA.0B.045.DG	28	2.1	0.39	PVC	5.1	CMN.09.T28.051PGCE	
	312	12	0.35	D56	GMA.0B.045.DG	28	2.1	0.39	PVC	5.4	CMN.12.T28.054PGCE	
1B	302	2	1.3	D52	GMA.1B.045.DG	20	8.0	0.90	PVC	4.7	CMN.02.T20.047PGCE	
	303	3	1.3	D52	GMA.1B.045.DG	20	8.0	0.90	PVC	4.9	CMN.03.T20.049PGCE	
	304	4	0.9	D52	GMA.1B.045.DG	22	6.4	0.72	PVC	4.7	CMN.04.T22.047PGCE	
	305	5	0.9	D52	GMA.1B.045.DG	22	6.4	0.72	PVC	5.1	CMN.05.T22.051PGCE	●
	306	6	0.7	D62	GMA.1B.054.DG	22	5.6	0.72	PVC	5.5	CMN.06.T22.055PGCE	
	307	7	0.7	D62	GMA.1B.054.DG	22	5.6	0.72	PVC	5.5	CMN.07.T22.055PGCE	
	308	8	0.7	D62	GMA.1B.054.DG	22	5.6	0.72	PVC	5.9	CMN.08.T22.059PGCE	
	310	10	0.5	D52	GMA.1B.045.DG	28	2.1	0.39	PVC	5.2	CMN.10.T28.052PGCE	
	314	14	0.5	D62	GMA.1B.054.DG	28	2.1	0.39	PVC	5.6	CMN.14.T28.056PGCE	●
	316	16	0.5	D62	GMA.1B.054.DG	28	1.5	0.39	PVC	5.9	CMN.16.T28.059PGCE	
2B	302	2	2.0	D72	GMA.2B.070.DG	14	21.6	1.80	PVC	7.2	CMN.02.T14.072PGCE	●
	303	3	1.6	D62	GMA.2B.060.DG	18	12.0	1.22	PVC	5.5	CMN.03.T18.055PGCE	●
	304	4	1.3	D62	GMA.2B.060.DG	20	8.0	0.90	PVC	5.3	CMN.04.T20.053PGCE	●
	305	5	1.3	D62	GMA.2B.060.DG	20	8.0	0.90	PVC	5.7	CMN.05.T20.057PGCE	●
	306	6	1.3	D62	GMA.2B.060.DG	20	7.0	0.90	PVC	6.2	CMN.06.T20.062PGCE	●
	307	7	1.3	D62	GMA.2B.060.DG	20	7.0	0.90	PVC	6.2	CMN.07.T20.062PGCE	●
	308	8	0.9	D62	GMA.2B.060.DG	22	5.6	0.72	PVC	5.9	CMN.08.T22.059PGCE	●

Note: ¹⁾ not UL AWM 2464 certified.

²⁾ Rated current = current carrying capacities of conductor (Amp).

● Also available in BioCompatic®

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PVC multiconductor cable part numbers for LEMO connectors



LEMO connectors

NORTHWIRE cables

	Type	# contacts	Pin ø	Collet type	Bend relief	AWG	Rated current ¹⁾	Cond. OD	Jacket	Jacket OD	Cable part number for PVC	BioCompatic®
2B	310	10	0.9	D72	GMA.2B.070.DG	22	5.6	0.72	PVC	6.8	CMN.10.T22.068PGCE	●
	312	12	0.7	D72	GMA.2B.070.DG	22	5.6	0.72	PVC	7.0	CMN.12.T22.070PGCE	●
	314	14	0.7	D72	GMA.2B.070.DG	22	5.6	0.72	PVC	6.8	CMN.14.T22.068PGCE ¹⁾	
	316	16	0.7	D82	GMA.2B.080.DG	22	4.0	0.72	PVC	7.9	CMN.16.T22.079PGCE	
	318	18	0.7	D82	GMA.2B.080.DG	22	4.0	0.72	PVC	8.0	CMN.18.T22.080PGCE	
	319	19	0.7	D82	GMA.2B.080.DG	22	4.0	0.72	PVC	8.0	CMN.19.T22.080PGCE	
	326	26	0.5	D72	GMA.2B.070.DG	28	1.5	0.39	PVC	7.0	CMN.26.T28.070PGCE	
	332	32	0.5	D92	GMA.2B.080.DG	28	—	0.39	PVC	8.4	CMN.32.T28.084PGCE	
3B	302	2	3.0	D92	GMA.3B.070.DG	12	28.8	2.34	PVC	7.8	CMN.02.T12.078PGCE	
	303	3	2.0	D92	GMA.3B.070.DG	14	21.6	1.80	PVC	7.8	CMN.03.T14.078PGCE	
	304	4	2.0	D92	GMA.3B.080.DG	14	21.6	1.80	PVC	8.3	CMN.04.T14.083PGCE	
	305	5	1.6	D72	GMA.3B.060.DG	18	12.0	1.22	PVC	6.5	CMN.05.T18.065PGCE	
	306	6	1.6	D72	GMA.3B.060.DG	18	10.5	1.22	PVC	7.0	CMN.06.T18.070PGCE	
	307	7	1.6	D72	GMA.3B.060.DG	18	10.5	1.22	PVC	7.0	CMN.07.T18.070PGCE	
	308	8	1.3	D72	GMA.3B.060.DG	20	7.0	0.90	PVC	6.7	CMN.08.T20.067PGCE	
	310	10	1.3	D92	GMA.3B.070.DG	20	7.0	0.90	PVC	8.0	CMN.10.T20.080PGCE	
	312	12	0.9	D72	GMA.3B.070.DG	22	5.6	0.72	PVC	7.0	CMN.12.T22.070PGCE	
	314	14	0.9	D92	GMA.3B.080.DG	22	5.6	0.72	PVC	8.1	CMN.14.T22.081PGCE	
	316	16	0.9	D92	GMA.3B.070.DG	22	4.0	0.72	PVC	7.9	CMN.16.T22.079PGCE	
	318	18	0.9	D92	GMA.3B.080.DG	22	4.0	0.72	PVC	8.0	CMN.18.T22.080PGCE	
	320	20	0.7	D92	GMA.3B.080.DG	22	4.0	0.72	PVC	8.4	CMN.20.T22.084PGCE	
	322	22	0.7	D92	GMA.3B.080.DG	22	4.0	0.72	PVC	8.8	CMN.22.T22.088PGCE	
	324	24	0.7	D92	GMA.3B.080.DG	22	4.0	0.72	PVC	8.2	CMN.24.T22.082PGCE ¹⁾	
	326	26	0.7	D92	GMA.3B.080.DG	22	4.0	0.72	PVC	8.2	CMN.26.T22.082PGCE ¹⁾	
	330	30	0.7	D92	GMA.3B.080.DG	22	4.0	0.72	PVC	8.7	CMN.30.T22.087PGCE ¹⁾	

Note: ¹⁾ not UL AWM 2464 certified.

²⁾ Rated current = current carrying capacities of conductor (Amp).

● Also available in BioCompatic®

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BioCompatic® multiconductor cable part numbers for REDEL connectors



REDEL connectors

NORTHWIRE cables

	Type	# contacts	Pin ø	Collet type	Bend relief	AWG	Rated ¹⁾ current	Cond. OD	Jacket	Jacket OD	Cable part number for TPR	BioCompatic®	PVC
1P	M0.2	2	1.3	C52	GMA.1B.045.DG	20	8.0	0.88	TPR	4.8	CMN.02.T20.048QGZE	●	●
	M0.4	4	0.9	C52	GMA.1B.045.DG	22	6.4	0.74	TPR	4.8	CMN.04.T22.048QGZE	●	●
	M0.5	5	0.9	C52	GMA.1B.051.RG	22	6.4	0.74	TPR	5.1	CMN.05.T22.051QGZE	●	●
	M0.6	6	0.7	C39	GMA.1B.035.DG	26	2.8	0.48	TPR	3.7	CMN.06.T26.037QGZE	●	○
	M0.7	7	0.7	C39	GMA.1B.035.DG	26	2.8	0.48	TPR	3.7	CMN.07.T26.037QGZE	●	○
	M0.8	8	0.7	C52	GMA.1B.040.DG	26	2.8	0.48	TPR	4.2	CMN.08.T26.042QGZE	●	○
	M0.9	9	0.5	C52	GMA.1B.051.RG	28	2.1	0.38	TPR	5.1	CMN.09.T28.051QGZE	●	○
	M1.0	10	0.5	C65	GMA.1B.054.DG	28	2.1	0.38	TPR	5.3	CMN.10.T28.053QGZE	●	●
	M1.4	14	0.5	C65	GMA.1B.054.DG	28	2.1	0.38	TPR	5.6	CMN.14.T28.056QGZE	●	●
2P	M0.2	2	2.0	C72	GMA.2B.070.DG	14	21.6	1.78	TPR	7.2	CMN.02.T14.072QGZE	○	●
	M0.3	3	1.6	C72	GMA.2B.050.DG	18	12.0	1.21	TPR	5.5	CMN.03.T18.055QGZE	○	●
	M0.4	4	1.3	C72	GMA.2B.050.DG	20	8.0	0.88	TPR	5.3	CMN.04.T20.053QGZE	●	●
	M0.5	5	1.3	C72	GMA.2B.057.RG	20	8.0	0.88	TPR	5.7	CMN.05.T20.057QGZE	○	●
	M0.6	6	1.3	C72	GMA.2B.060.DG	20	7.0	0.88	TPR	6.2	CMN.06.T20.062QGZE	●	●
	M0.7	7	1.3	C72	GMA.2B.060.DG	20	7.0	0.88	TPR	6.2	CMN.07.T20.062QGZE	○	●
	M0.8	8	0.9	C72	GMA.2B.060.DG	22	5.6	0.74	TPR	5.9	CMN.08.T22.059QGZE	○	●
	M1.0	10	0.9	C72	GMA.2B.063.RG	22	5.6	0.74	TPR	6.8	CMN.10.T22.068QGZE	○	●
	M1.2	12	0.7	C72	GMA.2B.070.DG	22	5.6	0.74	TPR	7.0	CMN.12.T22.070QGZE	○	●
	M1.6	16	0.7	C92	GMA.2B.070.DG	22	4.0	0.74	TPR	7.6	CMN.16.T22.076QGZE	●	●
	M1.9	19	0.7	C92	GMA.2B.080.DG	22	4.0	0.74	TPR	7.9	CMN.19.T22.079QGZE	●	●
	M2.6	26	0.5	C72	GMA.2B.050.DG	30	1.0	0.30	TPR	5.4	CMN.26.T30.054QGZE	●	○
	M3.2	32	0.5	C72	GMA.2B.057.RG	30	0.7	0.30	TPR	5.8	CMN.32.T30.058---- ⁴⁾		
	M3.4	34	0.5	C72	GMA.2B.060.DG	30	0.7	0.30	TPR	6.0	CMN.34.T30.060QGZE	●	○
SP	M04	4	1.3	6	–	20	8.0	0.88	TPR	5.3	CMN.04.T20.053---- ⁴⁾		
	M06	6	0.9 ³⁾	6	–	20	7.0	0.88	TPR	6.2	CMN.06.T20.062QGZE	○	●
	M08	8	0.9	6	GMA.1B.054.DG	22	5.6	0.74	TPR	5.9	CMN.08.T22.059QGZE	○	●
	M10	10	0.7	7	GMA.1B.065.DG	22	5.6	0.74	TPR	6.8	CMN.10.T22.068QGZE	○	●
	M13	13	0.7	7	–	22	5.6	0.74	TPR	7.2	CMN.13.T22.072QGZE	●	○
	M16	16	0.5	5	GMA.1B.045.DG	30	1.0	0.30	TPR	4.7	CMN.16.T30.047QGZE	●	○
	M18	18	0.5	5	GMA.1B.045.DG	30	1.0	0.30	TPR	4.8	CMN.18.T30.048---- ⁴⁾		
	M22	22	0.5	6	GMA.1B.054.DG	30	1.0	0.30	TPR	5.4	CMN.22.T30.054---- ⁴⁾		

Note:

¹⁾ Rated current = current carrying capacities of conductor (Amp).

²⁾ Bucket.

³⁾ For crimp contact only.

⁴⁾ Outer diameter on request.

● Available in BioCompatic® or in PVC

○ On request

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BioCompatic® hybrid cable part numbers for REDEL connectors



REDEL connectors

NORTHWIRE cables

	Type	# contacts	Pin ø	Collet type	Bend relief	AWG	Rated ¹⁾ current	Cond. OD	Jacket	Jacket OD	Cable part number	BioCompatic®	PVC
3P	306	6+1	0.8+ø 2 ²⁾	D75	—	24/14	—	1.78/	TPR	6.9	CHN.06.01E.B069QGZ		
	310	10+1	0.8+ø 2 ²⁾	D75	—	24/14	—	1.78/	TPR	6.9	CHN.10.01E.B069QGZ		
	314	14+1	0.8+ø 2 ²⁾	D75	—	24/14	—	1.78/	TPR	7.0	CHN.14.01E.B070QGZ		
	318	18+1	0.6+ø 2 ²⁾	D75	—	26/14	—	1.78/0.48	TPR	7.0	CHN.18.01E.B070QGZ		

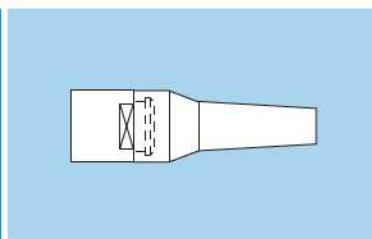
Note:

¹⁾ Rated current = current carrying capacities of conductor (Amp).

²⁾ Bucket.

● Available in BioCompatic® or in PVC
○ On request

Accessories



GM● Bend relief

The last letter «G» of the part number indicates the grey color of the bend relief.
For ordering a bend relief with another color, see table below and replace the letter «G» by the letter of the required color.

Ref.	Color	Ref.	Color	Ref.	Color
A	Blue	J	Yellow	R	Red
B	White	M	Brown	S	Orange
G	Grey RAL 7001	N	Black RAL 9005	V	Green

- Material: TPU (Thermoplastic Polyurethane)
- Temperature range in dry atmosphere: -40°C +80°C

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Custom cables

Northwire also specialises in manufacturing custom cables. From AWG 2 to AWG 36 wire size and from 0V to 2000V.



Infinite Custom Options Available

Since 1972, our valued customers rely on our subject matter experts to navigate complex domestic and international standards, agency compliance, environmental regulations, electrical, mechanical, ergonomic, aesthetic, harsh duty, and end-user requirements. Custom options include, but not limited to the following:

Fillers

- PP | TPES | Nylon | Cotton | Paper

Shielding- EMI/RFI Protection

- Braid | Basket Weave | Spiral | Serve
- Copper | Stainless Steel

Mechanical Strength Render

- Aramid | Carbon | Glass Fibers
- Flame Resistant Meta-Aramid Fiber
- Galvanized Carbon Steel
- Glass Reinforced Plastic

Tape and Paper Separation Options

- FEP | Foam PP | Paper | TPES | PTFE | Spun Nylon
- Aluminum Foil | Aluminized Polyester

Water Blocking

- Conductors | Fillers | Tapes

Extrusion and Molding Materials

- Fluoropolymers
 - ECTFE (Ethylene Chlorotrifluoroethylene)
 - ETFE (Ethylene Tetrafluoroethylene)
 - FEP (Fluorinated Ethylene Propylene)
 - PFA (Perfluoroalkoxy)
 - PVDF (Polyvinylidene Fluoride)
- Polyester Elastomer
- PE (Polyethylene) Solid or Foam
- XLPE (Cross-Link PE) Solid or Foam
- HDPE (High Density PE)
- LDPE (Low Density PE)
- LLDPE (Linear Low Density PE)
- MDPE (Medium Density PE)
- TPES (Polyester)
- PP (Polypropylene)
- FRPP (Flame Resistant PP)
- PUR (Polyurethane)
- TPE (Thermoplastic Elastomer)
- TPR (Thermoplastic Rubber)
- PVC (Polyvinyl Chloride)
 - Flexible | Semi-Conductive | Semi-Rigid

Cable Assembly Expertise and Capabilities

LEMO and Northwire have their own connector termination facilities with fully trained technicians to guarantee the quality of the terminations provided. Whilst our emphasis is naturally on the termination of our own connectors, we have extensive experience of termination of connectors from other manufacturers.

The facilities have the capability for termination of copper based cable assemblies. Copper based systems can fail through poor or inexperienced termination whether with solder or crimp contacts especially with high density contact configurations and use of lead-free solders.

As well as the manual skills required to terminate a cable assembly, the achievement of quality requires the necessary equipment for both termination and testing. LEMO/NORTHWIRE cable facilities are equipped with the latest cable preparation, termination and test equipment, both manual and automatic. Each electrical cable assembly is fully tested for pin-pin continuity, as well as having a high voltage test to ensure that there are no potential breakdown problems. Every cable assembly is fully inspected to ensure that it meets the requirements specified.

One-Stop-Shop Supplier

Integrated connectors, cable, harness, cable assemblies and overmolding solutions.

Engineering Expertise

Standard and customized high quality solutions for complex assemblies. Design, prototyping and 100% testing to ensure highest quality.

World-Wide Support

With several cable assembly locations in USA, Europe and Asia, LEMO/NORTHWIRE has a solution for every customer.

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