

# GVL Cryoengineering

## Dr. George V. Lecomte GmbH

### Meß-, Regel- und Kryotechnik

#### EXCERPT FROM THE PRODUCT LIST

#### "CRYOGENIC ACCESSORIES"

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#### Low temperature and vacuum greases

1	GVLZ079	Apiezon "N" grease (low temperatures)	25g Tube
2	GVLZ080	Apiezon "M" grease (high vacuum)	100g Tube
3	GVLZ181	Apiezon "H" grease (high temperatures)	25g Tube
4	GVLZ128	Dow Corning vacuum grease (high vacuum)	50g Tube

#### Low temperature glue or varnish

Note: Most chemicals require special shipment (hazardous goods) - please inquire

5	GVLZ056	"IMI 7031" <sup>1</sup> insulating varnish	100ml bottle
6		"IMI 7031" <sup>1</sup> insulating varnish	250ml bottle
7		"IMI 7031" <sup>1</sup> insulating varnish	500ml bottle
8	GVLZ076	"Stycast 2850FT", with hardener	1kg package
9	GVLZ077	"Stycast 1266", A und B	1kg package
10	GVLZ097	"Armstrong Al2", epoxy with hardener	55g + 45g package
11	GVLZ249	"EPO-TEK 301-2", epoxy with hardener	4g package
12	GVLZ260	ELKEM Silicone CAF4 100g	4g package

#### Conducting varnish

13	GVLZ054	Silver-based Epoxy-coating Elekolit 336	50g-package
14	GVLZ055	Silver-based Epoxy-coating Elekolit 342	3g-package

#### Adhesive tape

15	GVLZ059	Aluminum tape, 81µm thick, conductive, 19.1mm wide	16.5m
16	GVLZ060	Aluminum tape, 81µm thick, conductive, 25.4mm wide	16.5m
17	GVLZ057	Aluminized polyester, non conductive, 19.1mm wide	66m
18	GVLZ058	Aluminized polyester, non conductive, 25.4mm wide	66m

#### Sealing tape

19	GVLZ202	PTFE sealing band, .1mm thick, 12mm wide, white, DVDW approved	12m
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#### Resistance wire (varnish insulated)

20	GVLZ001	Manganin®-wire 0.03 mm diameter	100m spool
21		Manganin®-wire 0.03 mm diameter	250m spool
22		Manganin®-wire 0.03 mm diameter	500m spool
23	GVLZ002	Manganin®-wire 0.05 mm diameter	100m spool
24		Manganin®-wire 0.05 mm diameter	250m spool
25		Manganin®-wire 0.05 mm diameter	500m spool
26	GVLZ003	Manganin®-wire 0.1 mm diameter	100m spool
27		Manganin®-wire 0.1 mm diameter	250m spool
28		Manganin®-wire 0.1 mm diameter	500m spool
29	GVLZ149	Manganin®-wire 0.127 mm diameter, A200 insulated	100m spool
30		Manganin®-wire 0.127 mm diameter, A200 insulated	250m spool
31		Manganin®-wire 0.127 mm diameter, A200 insulated	500m spool
32	GVLZ004	Manganin®-wire 0.14 mm diameter	100m spool
33		Manganin®-wire 0.14 mm diameter	250m spool
34		Manganin®-wire 0.14 mm diameter	500m spool
35	GVLZ005	Manganin®-wire 0.2 mm diameter	100m spool
36		Manganin®-wire 0.2 mm diameter	250m spool
37		Manganin®-wire 0.2 mm diameter	500m spool
38	GVLZ006	Manganin®-wire 0.27 mm diameter	100m spool
39		Manganin®-wire 0.27 mm diameter	250m spool
40		Manganin®-wire 0.27 mm diameter	500m spool
41	GVLZ150	Manganin®-wire 0.5 mm diameter, A200 insulated	100m spool
42		Manganin®-wire 0.5 mm diameter, A200 insulated	250m spool
43	GVLZ007	Manganin®-wire 0.56 mm diameter	100m spool
44	GVLZ050	Brass-wire 0.10 mm diameter, A200 insulated	100m spool
45		Brass-wire 0.10 mm diameter, A200 insulated	250m spool
46		Brass-wire 0.10 mm diameter, A200 insulated	500m spool
47	GVLZ029	Brass-wire 0.112 mm diameter	100m spool
48		Brass-wire 0.112 mm diameter	250m spool
49		Brass-wire 0.112 mm diameter	500m spool

Other diameters and lengths on request

1 formerly known as GE-7031 Insulating Varnish

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**EXCERPT FROM THE PRODUCT LIST**

**"CRYOGENIC ACCESSORIES"**

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**Resistance wire (varnish insulated)**

50	GVLZ151	Constantan-wire 0.10 mm diameter	100m spool	
51		Constantan-wire 0.10 mm diameter	250m spool	
52		Constantan-wire 0.10 mm diameter	500m spool	
53	GVLZ087	Constantan-wire 0.224 mm diameter, W200 insulated	100m spool	
54		Constantan-wire 0.224 mm diameter, W200 insulated	250m spool	
55		Constantan-wire 0.224 mm diameter, W200 insulated	500m spool	
56	GVLZ094	NiCr80-wire 0.1 mm diameter	100m spool	
57		NiCr80-wire 0.1 mm diameter	250m spool	
58		NiCr80-wire 0.1 mm diameter	500m spool	
59	GVLZ092	NiCr80-wire 0.2 mm diameter	100m spool	
60		NiCr80-wire 0.2 mm diameter	250m spool	
61		NiCr80-wire 0.2 mm diameter	500m spool	
62	GVLZ095	NiCr60-wire 0.06 mm diameter	100m spool	
63	GVLZ104	Phosphor-Bronze wire 0.1 mm diameter, ML insulated	100m spool	
64	GVLZ193	Phosphor-Bronze wire 0.127 mm diameter, ML insulated	100m spool	<b>Resistance</b>

**wire, varnish insulated, as twisted pair**

65	GVLZ258	Phosphor-Bronze wire 0.1 mm diameter, ML insulated	50m spool	
66		Phosphor-Bronze wire 0.1 mm diameter, ML insulated	100m spool	
67	GVLZ190	Phosphor-Bronze wire 0.127 mm diameter, ML insulated	50m spool	
68		Phosphor-Bronze wire 0.127 mm diameter, ML insulated	100m spool	

**Resistance wire, varnish insulated, as quad (double twisted pairs)**

	GVLZ201	Manganin®-wire 0.127 mm diameter, A200 insulated		
69		With Kapton outer insulation	50m spool	
70		With Kapton outer insulation	100m spool	
71	GVLZ208	Phosphor-Bronze wire 0.127 mm diameter, ML insulated	50m spool	
72		Phosphor-Bronze wire 0.127 mm diameter, ML insulated	100m spool	

**Resistance wire (uninsulated)**

73	GVLZ093	Manganin®-wire 0.1 mm diameter	100m spool	
74	GVLZ112	CuNi6-wire 0.4 mm diameter	100m spool	
75	GVLZ172	CuNi15-wire 0.050 mm diameter	100m spool	
76		CuNi15-wire 0.050 mm diameter	250m spool	
77		CuNi15-wire 0.050 mm diameter	500m spool	
78	GVLZ146	Brass-wire 0.10 mm diameter	100m spool	
79		Brass-wire 0.10 mm diameter	250m spool	
80		Brass-wire 0.10 mm diameter	500m spool	
81	GVLZ166	Brass-wire 0.050 mm diameter	100m spool	
82		Brass-wire 0.050 mm diameter	250m spool	
83		Brass-wire 0.050 mm diameter	500m spool	
84	GVLZ221	Constantan-wire 0.045 mm diameter	50m spool	
85		Constantan-wire 0.045 mm diameter	100m spool	
86	GVLZ219	Constantan-wire 0.050 mm diameter	50m spool	

**Copper wire (varnish insulated)**

87	GVLZ008	Copper wire 0.050 mm diameter	100m spool	
88		Copper wire 0.050 mm diameter	250m spool	
89		Copper wire 0.050 mm diameter	500m spool	
90	GVLZ103	Copper wire 0.100 mm diameter, A200 insulated	250m spool	
91		Copper wire 0.100 mm diameter, A200 insulated	500m spool	
92	GVLZ062	Copper wire 0.150 mm diameter, A200 insulated	250m spool	
93		Copper wire 0.150 mm diameter, A200 insulated	500m spool	
94	GVLZ175	Copper wire 0.280 mm diameter	100m spool	
95	GVLZ063	Copper wire 0.750 mm diameter	50m spool	
96		Copper wire 0.750 mm diameter	100m spool	
97	GVLZ064	Copper wire 1.00 mm diameter	25m spool	
98		Copper wire 1.00 mm diameter	50m spool	

Other diameters and lengths on request

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#### EXCERPT FROM THE PRODUCT LIST

#### "CRYOGENIC ACCESSORIES"

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#### Superconducting wire : NbTi in copper-nickel matrix

99	GVLZ234	NbTi core in <b>thin coat</b> Cu-Ni matrix, Formvar insulated, metal diameter: 0.045 mm	20m-Spool
100		metal diameter: 0.045 mm	50m-Spool
101	GVLZ113	NbTi core in Cu-Ni matrix, Formvar insulated, metal diameter: 0.05 mm	20m-Spool
102		metal diameter: 0.05 mm	50m-Spool
103	GVLZ016	NbTi core in Cu-Ni matrix, Formvar insulated, metal diameter: 0.06 mm	20m-Spool
104		metal diameter: 0.06 mm	50m-Spool
105	GVLZ136	NbTi core in Cu-Ni matrix, bare (uninsulated), metal diameter: 0.1 mm	20m-Spool
106		metal diameter: 0.1 mm	50m-Spool
107	GVLZ017	NbTi core in Cu-Ni matrix, Formvar insulated, metal diameter: 0.1 mm	20m-Spool
108		metal diameter: 0.1 mm	50m-Spool
109	GVLZ018	NbTi core in Cu-Ni matrix, HML insulated, metal diameter: 0.1 mm	20m-Spool
110		metal diameter: 0.1 mm	50m-Spool
111	GVLZ133	NbTi core in Cu-Ni matrix, MW35c insulated, metal diameter: 0.1 mm	20m-Spool
112		metal diameter: 0.1 mm	50m-Spool
113	GVLZ145	NbTi core in Cu-Ni matrix, Teflon FEP insulated, metal diameter: 0.1 mm, insulated diameter: .36 mm	20m-Spool
114		metal diameter: 0.1 mm, insulated diameter: .36 mm	50m-Spool
115	GVLZ240	NbTi core in <b>thin coat</b> Cu-Ni matrix, HML insulated, metal diameter: 0.1 mm	20m-Spool
116		metal diameter: 0.1 mm	50m-Spool
117	GVLZ019	NbTi core in Cu-Ni matrix, HML insulated, metal diameter: 0.13 mm	20m-Spool
118		metal diameter: 0.13 mm	50m-Spool
119	GVLZ020	NbTi core in Cu-Ni matrix, Formvar insulated, metal diameter: 0.25 mm	20m-Spool
120		metal diameter: 0.25 mm	50m-Spool

#### Superconducting wire : single NbTi filament

121	GVLZ009	NbTi wire, without matrix, bare (uninsulated), metal diameter: 0.025 mm	50m-Spool
122	GVLZ154	NbTi wire, without matrix, bare (uninsulated), metal diameter: 0.035 mm	50m-Spool
123	GVLZ096	NbTi wire, without matrix, Formvar insulated, metal diameter: 0.040 mm	20m-Spool
124	GVLZ010	NbTi wire, without matrix, Formvar insulated, metal diameter: 0.050 mm	20m-Spool
125	GVLZ182	NbTi wire, without matrix, Teflon PFA insulated, metal diameter: 0.050 mm	20m-Spool
126		metal diameter: 0.050 mm	50m-Spool
127	GVLZ184	NbTi wire, without matrix, Teflon PTFE insulated, metal diameter: 0.050 mm	20m-Spool
128		metal diameter: 0.050 mm	50m-Spool
129	GVLZ011	NbTi wire, without matrix, Formvar insulated, metal diameter: 0.075 mm	20m-Spool
130	GVLZ086	NbTi wire, without matrix, Teflon PFA insulated, metal diameter: 0.075 mm, insulated: 0.18 mm	20m-Spool
131	GVLZ210	NbTi wire, without matrix, Teflon PFA insulated, metal diameter: 0.075 mm, insulated: 0.28 mm	20m-Spool

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#### Superconducting wire : single NbTi filament

132	GVLZ218	NbTi wire, without matrix, HML insulated, metal diameter: 0.1 mm	20m-Spool
133	GVLZ111	NbTi wire, without matrix, bare (uninsulated) metal diameter: 0.125 mm	20m-Spool
134	GVLZ134	NbTi wire, without matrix, Formvar insulated, metal diameter: 0.125 mm	20m-Spool
135	GVLZ105	NbTi wire, without matrix, HML insulated, metal diameter: 0.125 mm	20m-Spool
136	GVLZ089	NbTi wire, without matrix, Formvar insulated, metal diameter: 0.17 mm	20m-Spool
137	GVLZ013	NbTi wire, without matrix, HML insulated, metal diameter: 0.25 mm	20m-Spool
138	GVLZ012	NbTi wire, without matrix, Teflon PFA insulated, metal diameter: 0.25 mm	20m-Spool
139	GVLZ014	NbTi wire, without matrix, HML insulated, metal diameter: 0.5 mm	20m-Spool
140	GVLZ015	NbTi wire, without matrix, bare (uninsulated), metal diameter: 0.7 mm	50m-Spool
141	GVLZ152	NbTi wire, without matrix, HML insulated, metal diameter: 1.0 mm	

#### Superconducting wire : single NbTi filament in copper matrix

142	GVLZ021	NbTi core in Cu matrix, Formvar insulated, metal diameter: 0.025 mm	50m-Spool
143		metal diameter: 0.025 mm	100m-Spool
144	GVLZ022	NbTi core in Cu matrix, Formvar insulated, metal diameter: 0.050 mm	50m-Spool
145		metal diameter: 0.050 mm	100m-Spool
146	GVLZ091	NbTi core in Cu matrix, Formvar insulated, metal diameter: 0.075 mm	50m-Spool
147		metal diameter: 0.075 mm	100m-Spool
148	GVLZ174	NbTi core in Cu matrix, Formvar insulated, metal diameter: 0.079 mm	50m-Spool
149		metal diameter: 0.079 mm	100m-Spool
150	GVLZ023	NbTi core in Cu matrix, Formvar insulated, metal diameter: 0.1 mm	25m-Spool
151		metal diameter: 0.1 mm	50m-Spool
152		metal diameter: 0.1 mm	100m-Spool
153	GVLZ024	NbTi core in Cu matrix, Formvar insulated, metal diameter: 0.13 mm	25m-Spool
154		metal diameter: 0.13 mm	50m-Spool
155		metal diameter: 0.13 mm	100m-Spool
156	GVLZ106	NbTi core in Cu matrix, HML insulated, metal diameter: 0.13 mm	100m-Spool
157		metal diameter: 0.13 mm	250m-Spool
158	GVLZ026	NbTi core in Cu matrix, insulated, metal diameter: 0.3 mm	50m-Spool
159		metal diameter: 0.3 mm	100m-Spool
160	GVLZ027	NbTi core in Cu matrix, bare (uninsulated), metal diameter: 0.4 mm	50m-Spool
161	GVLZ211	NbTi core in Cu matrix, Formvar insulated, metal diameter: 0.5 mm	50m-Spool
162		metal diameter: 0.5 mm	100m-Spool

#### Superconducting wire : Multifilament

163	GVLZ028	Multifilament NbTi in Cu matrix, Formvar insulated metal diameter: 0.114 mm	20m-Spool
164		metal diameter: 0.114 mm	50m-Spool
165	GVLZ263	Multifilament NbTi in Cu matrix, Formvar insulated metal diameter: 0.127 mm	50m-Spool
166		metal diameter: 0.127 mm	100m-Spool

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**Superconducting wire : Multifilament**

167	GVLZ170	Multifilament NbTi in Cu matrix, HML insulated metal diameter: 0.203 mm	20m-Spool
168		metal diameter: 0.203 mm	50m-Spool
169	GVLZ171	Multifilament NbTi in Cu matrix, Formvar insulated metal diameter: 0.203 mm	20m-Spool
170		metal diameter: 0.203 mm	50m-Spool
171	GVLZ252	Multifilament NbTi in Cu matrix, Formvar insulated metal diameter: 0.30 mm	20m-Spool
172		metal diameter: 0.30 mm	50m-Spool

**Superconducting wire : single Nb filament**

173	GVLZ207	Nb wire, without matrix, Formvar insulated, metal diameter: 0.050 mm	5m-Spool
174		metal diameter: 0.050 mm	20m-Spool
175	GVLZ164	Nb wire, without matrix, Formvar insulated, metal diameter: 0.125 mm	5m-Spool
176		metal diameter: 0.125 mm	20m-Spool
177	GVLZ194	Nb wire, without matrix, Polyimid insulated, metal diameter: 0.125 mm	5m-Spool
178		metal diameter: 0.125 mm	20m-Spool

**Superconducting wire : others**

179	GVLZ098	Nb3Sn Wire in Cu-Ni Matrix, untreated, uninsulated, metal diameter: 0.13 mm	
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**Gold wire for contacting**

180	GVLZ220	Au 99.9%, metal diameter: 15µm, uninsulated	5m-Spool
181	GVLZ061	Au 99.9%, metal diameter: 25µm, uninsulated	5m-Spool
182		metal diameter: 25µm, uninsulated	10m-Spool

**Silver wire for contacting**

183	GVLZ237	Ag 99.9%, metal diameter: 25µm, uninsulated	5m-Spool
184		metal diameter: 25µm, uninsulated	10m-Spool

**Low temperature coax cable, superconducting**

*Minimum order for each type: 10m*

185	GVLZ137	Coax Cable, superconducting central conductor of NbTi in CuNi matrix, bare, outer shielding of braided CuNi single wire version	per meter
186	GVLZ032	Coax Cable, superconducting central conductor of NbTi in CuNi matrix, varnished, outer shielding of braided CuNi single wire version	per meter
187	GVLZ031	Coax Cable, superconducting central conductor of NbTi in CuNi matrix, outer shielding of braided CuNi twisted pair version	per meter
188	GVLZ241	Coax Cable, superconducting central conductor of NbTi <b>with thin CuNi matrix</b> , high coverage outer shielding of braided CuNi, twisted pair version	per meter
189	GVLZ217	Coax Cable, superconducting central conductor of NbTi <b>without matrix</b> , outer shielding of braided CuNi twisted pair version	per meter
190	GVLZ223	Coax Cable, superconducting central conductor of NbTi <b>without matrix</b> , high coverage outer shielding of braided CuNi, twisted pair version	per meter
191	GVLZ030	Coax Cable, superconducting central conductor of NbTi in CuNi matrix, outer shielding of braided CuNi twisted triple wire version	per meter

**Low temperature coax cable**

*Minimum order for each type: 10m*

192	GVLZ036	Coax Cable, central conductor of brass, approx. 8ohm/m, outer shielding of braided CuNi single wire version	per meter
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#### EXCERPT FROM THE PRODUCT LIST

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#### Low temperature coax cable

Minimum order for each type: 10m

193	GVLZ034	Coax Cable, central conductor of brass, approx. 4ohm/m, outer shielding of braided CuNi single conductor (double strand) version	per meter
194	GVLZ189	Coax Cable, central conductor of brass, approx. 4ohm/m, outer shielding of braided CuNi, PE insulation single conductor (double strand low noise) version	per meter
195	GVLZ033	Coax Cable, central conductor of brass, approx. 8ohm/m, outer shielding of braided CuNi, twisted pair version, single Teflon sleeve	per meter
196	GVLZ224	Coax Cable, central conductor of brass, approx. 8ohm/m, high coverage outer shielding of braided CuNi, <b>quad wire</b> version, single Teflon sleeve	per meter
197	GVLZ141	Coax Cable, central conductor of brass, approx. 8ohm/m, outer shielding of braided CuNi, twisted pair version, each wire in own Teflon sleeve	per meter
198	GVLZ169	Coax Cable, central conductor of brass, approx. 8ohm/m, outer shielding of braided brass, twisted pair version, non magnetic, single Teflon sleeve	per meter
199	GVLZ215	Coax Cable, central conductor of Manganin, approx. 34ohm/m, outer shielding of braided CuNi, twisted pair version, PE insulation (low noise) version	per meter
200	GVLZ185	Coax Cable, central conductor of CuNi, approx. 92ohm/m, outer shielding of braided CuNi, single wire, low noise version, graphite loaded sleeve	per meter
201	GVLZ265	Coax Cable, central conductor of CuNi, outer shielding of braided CuNi, 12 pairs (24 wire), low noise version, graphite loaded sleeve	per meter
202	GVLZ081	Coax Cable, central conductor of copper, approx. 1ohm/m, outer shielding of braided CuNi, with outer Teflon insulation, twisted pair in single Teflon sleeve	per meter
203	GVLZ037	Shielding of braided CuNi alone, ~0.9mm dia.	per meter

#### Indium Wire

204	GVLZ243	Indium Wire, 99.9% Purity, 3.0mmØ	per Meter
205		Indium Wire, 99.9% Purity, 3.0mmØ	5m-Length
206	GVLZ244	Indium Wire, 99.99% Purity, 2.0mmØ	per Meter
207		Indium Wire, 99.99% Purity, 2.0mmØ	5m-Length
208	GVLZ117	Indium Wire, 99.99% Purity, 1.6mmØ	per Meter
209		Indium Wire, 99.99% Purity, 1.6mmØ	5m-Length
210	GVLZ052	Indium Wire, 99.99% Purity, 1mmØ	per Meter
211		Indium Wire, 99.99% Purity, 1mmØ	5m-Length
212	GVLZ053	Indium Wire, 99.9% Purity, 0.5mmØ	per Meter
213		Indium Wire, 99.9% Purity, 0.5mmØ	5m-Length

#### Indium Foil

214	GVLZ179	Indium Foil, 99.99% Purity, .1mm thick, square	100cm <sup>2</sup>
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#### Silicate braided sleeves

	GVLZ099	High temperature insulating sleeve, inside diameter: 0.4 mm (o.d. 1mm)	per Meter
215		inside diameter: 0.4 mm (o.d. 1mm)	25m-Spool
216	GVLZ100	High temperature insulating sleeve, inside diameter: 1.6 mm (o.d. 2.4mm)	per Meter
217		inside diameter: 1.6 mm (o.d. 2.4mm)	20m-Spool
218		inside diameter: 1.6 mm (o.d. 2.4mm)	20m-Spool

#### PTFE insulating sleeves

219	GVLZ069	PTFE insulating sleeve, od 0.7mm id 0.3mm	10m-Spool
220	GVLZ070	PTFE insulating sleeve, od 0.7mm id 0.5mm	10m-Spool
221	GVLZ071	PTFE insulating sleeve, od 0.8mm id 0.5mm	10m-Spool
222	GVLZ072	PTFE insulating sleeve, od 0.8mm id 0.6mm	10m-Spool
223	GVLZ073	PTFE insulating sleeve, od 1.0mm id 0.7mm	10m-Spool
224	GVLZ074	PTFE insulating sleeve, od 1.0mm id 0.8mm	10m-Spool

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#### PTFE insulating sleeves

225	GVLZ075	PTFE insulating sleeve, od 1.2mm id 1.0mm	10m-Spool
226	GVLZ090	PTFE insulating sleeve, od 1.6mm id 1.0mm	10m-Spool
227	GVLZ180	PTFE insulating sleeve, od 6.0mm id 2.0mm	10m-Spool

#### SQUID leads shielding sleeves

228	GVLZ051	Lead/Tin sleeve to shield SQUID leads	per Meter
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#### 3He Gas

229	GVLZ101	3He for cryogenic applications in various quantities	
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#### Metal capillary tubing - copper

All the following copper capillaries are sold in fabrication lengths of ~2.5 - ~3.8m. They can be shipped in several pieces cut to the desired lengths.

230	GVLZ191	Copper capillary, od: 0.8mm; id: 0.4mm	per Meter
231	GVLZ187	Copper capillary, od: 0.8mm; id: 0.5mm	per Meter
232	GVLZ040	Copper capillary, od: 1.0mm; id: 0.25mm	per Meter
233	GVLZ161	Copper capillary, od: 1.5mm; id: 1.0mm	per Meter
234	GVLZ162	Copper capillary, od: 2.0mm; id: 1.5mm	per Meter
235	GVLZ238	Copper capillary, od: 2.3mm; id: 2.0mm	per Meter

#### Metal capillary tubing - copper-nickel / german silver

All the following copper-nickel capillaries are sold in fabrication lengths of ~2.5m - ~3.8m. They can be shipped in several pieces cut to the desired lengths.

Alloy is german silver: CuNi18Zn20

236	GVLZ041	CuNi capillary, od: 0.3mm; id: 0.1mm,	per Meter
237	GVLZ142	CuNi capillary, od: 0.4mm; id: 0.1mm,	per Meter
238	GVLZ042	CuNi capillary, od: 0.4mm; id: 0.2mm,	per Meter
239	GVLZ065	CuNi capillary, od: 0.5mm; id: 0.2mm,	per Meter
240	GVLZ043	CuNi capillary, od: 0.5mm; id: 0.3mm,	per Meter
241	GVLZ088	CuNi capillary, od: 0.6mm; id: 0.3mm,	per Meter
242	GVLZ044	CuNi capillary, od: 0.7mm; id: 0.4mm,	per Meter
243	GVLZ078	CuNi capillary, od: 0.7mm; id: 0.5mm,	per Meter
244	GVLZ045	CuNi capillary, od: 0.8mm; id: 0.6mm,	per Meter
245	GVLZ107	CuNi capillary, od: 0.9mm; id: 0.5mm,	per Meter
246	GVLZ114	CuNi capillary, od: 0.9mm; id: 0.6mm,	per Meter
247	GVLZ168	CuNi capillary, od: 1.0mm; id: 0.5mm,	per Meter
248	GVLZ046	CuNi capillary, od: 1.0mm; id: 0.7mm,	per Meter
249	GVLZ143	CuNi capillary, od: 1.1mm; id: 0.9mm,	per Meter
250	GVLZ066	CuNi capillary, od: 1.2mm; id: 0.8mm,	per Meter
251	GVLZ047	CuNi capillary, od: 1.4mm; id: 1.0mm,	per Meter
252	GVLZ144	CuNi capillary, od: 1.4mm; id: 1.2mm,	per Meter
253	GVLZ067	CuNi capillary, od: 1.5mm; id: 1.0mm,	per Meter
254	GVLZ139	CuNi capillary, od: 1.9mm; id: 1.2mm,	per Meter
255	GVLZ108	CuNi capillary, od: 1.9mm; id: 1.5mm,	per Meter
256	GVLZ120	CuNi capillary, od: 2.0mm; id: 1.5mm,	per Meter
257	GVLZ068	CuNi capillary, od: 2.0mm; id: 1.6mm,	per Meter
258	GVLZ138	CuNi capillary, od: 2.2mm; id: 1.2mm,	per Meter
259	GVLZ109	CuNi capillary, od: 2.4mm; id: 2.0mm,	per Meter
260	GVLZ121	CuNi capillary, od: 2.5mm; id: 2.0mm,	per Meter
261	GVLZ186	CuNi capillary, od: 3.0mm; id: 2.0mm,	per Meter
262	GVLZ110	CuNi capillary, od: 3.0mm; id: 2.5mm,	per Meter
263	GVLZ048	CuNi capillary, od: 3.0mm; id: 2.6mm,	per Meter
264	GVLZ122	CuNi capillary, od: 3.5mm; id: 3.0mm,	per Meter
265	GVLZ123	CuNi capillary, od: 4.0mm; id: 3.5mm,	per Meter
266	GVLZ049	CuNi capillary, od: 4.0mm; id: 3.6mm,	per Meter
267	GVLZ131	CuNi capillary, od: 4.5mm; id: 4.0mm,	per Meter
268	GVLZ124	CuNi capillary, od: 5.0mm; id: 4.0mm,	per Meter
269	GVLZ250	CuNi capillary, od: 5.0mm; id: 4.5mm,	per Meter
270	GVLZ251	CuNi capillary, od: 5.5mm; id: 5.0mm,	per Meter
271	GVLZ125	CuNi capillary, od: 6.0mm; id: 5.0mm,	per Meter
272	GVLZ173	CuNi capillary, od: 6.0mm; id: 5.4mm,	per Meter
273	GVLZ115	CuNi capillary, od: 6.0mm; id: 5.5mm,	per Meter

All prices are understood from Stolberg, Germany, packing, shipping and all taxes, if applicable, are additional - This price list voids and replaces all earlier versions.

# GVL Cryoengineering

## Dr. George V. Lecomte GmbH

### Meß-, Regel- und Kryotechnik

#### EXCERPT FROM THE PRODUCT LIST

#### "CRYOGENIC ACCESSORIES"

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#### Metal capillary tubing - copper-nickel / german silver

All the following copper-nickel capillaries are sold in fabrication lengths of ~2.5m - ~3.8m. They can be shipped in several pieces cut to the desired lengths. Alloy is german silver: CuNi18Zn20

274	GVLZ116	CuNi capillary, od: 7.0mm; id: 6.0mm,	per Meter
275	GVLZ126	CuNi capillary, od: 8.0mm; id: 7.0mm,	per Meter
276	GVLZ132	CuNi capillary, od: 12.0mm; id: 11.0mm,	per Meter
277	GVLZ206	CuNi capillary, od: 13.0mm; id: 12.0mm,	per Meter

#### Metal capillary tubing - copper-nickel 70-30

All the following copper-nickel capillaries are sold in fabrication lengths of ~2.5m - ~3.8m. They can be shipped in several pieces cut to the desired lengths. Alloy: CuNi30Mn1Fe [WN 2.0882]

278	GVLZ253	CuNi capillary, od: 1.0mm; id: 0.6mm,	per Meter
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#### Metal capillary and thin walled tubing - Stainless Steel

All the following stainless steel tubes are sold in fabrication lengths of ~2.0m - ~6.0m. They can be shipped in several pieces cut to the desired lengths. Price is subject to fluctuations - there maybe a minimum quantity required - ask for quote

Alloy: DIN 1.4301 (AISI 301) or 1.4571 (AISI 316Ti)

279	GVLZ225	1.4301 SS capillary, od: 5.0mm; id: 4.6mm	
280	GVLZ232	1.4301 SS capillary, od: 7.0mm; id: 6.6mm	
281	GVLZ226	1.4301 SS capillary, od: 8.0mm; id: 7.6mm	
282	GVLZ227	1.4301 SS capillary, od: 8.4mm; id: 8.0mm	
283	GVLZ228	1.4301 SS capillary, od: 10.0mm; id: 9.0mm	
284	GVLZ233	1.4301 SS capillary, od: 10.6mm; id: 10.0mm	
285	GVLZ229	1.4301 SS capillary, od: 11.0mm; id: 10.0mm	
286	GVLZ230	1.4301 SS capillary, od: 12.0mm; id: 11.0mm	
287	GVLZ242	1.4301 SS tw tube, od: 22mm; id: 21mm	
288	GVLZ231	1.4301 SS tw tube, od: 25mm; id: 24mm	

#### Bondable Terminals

289	GVLZ082	4 contact pairs, 2.7mm x 10.2mm	70pcs	-
290	GVLZ083	4 contact pairs, 3.4mm x 13.8mm	60pcs	-
291	GVLZ084	4 contact pairs, 4.5mm x 17.4mm	50pcs	-
292	GVLZ085	4 contact pairs, 6.4mm x 23.4mm	30pcs	-

#### Low Temperature Terminals (in-line connectors in 2.54mm step)

293	GVLZ156	12 contact pairs, male	1pcs	-
294	GVLZ157	12 contact pairs, female	1pcs	-
295	GVLZ158	12 contact pairs, female, low profile	1pcs	-
296	GVLZ129	20 contact pairs, male	1pcs	-
297	GVLZ130	20 contact pairs, female	1pcs	-
298	GVLZ155	20 contact pairs, female, low profile	1pcs	-

#### Low Temperature MCX-Miniature Coax Connectors

Wave impedance: 50Ω / Frequency range: 2GHz

299	GVLZ118	MCX connector, male, goldplated, straight	1pcs
300	GVLZ119	MCX connector, male, goldplated, 90° angle	1pcs
301	GVLZ153	MCX connector, female, goldplated, straight	1pcs
302	GVLZ102	MCX connector, female, goldplated, threaded mount	1pcs

#### Room Temperature Coax Vacuum Feedthroughs

Wave impedance: 50Ω / Frequency range: 1.5GHz

303	GVLZ147	Coax feedthrough, female, M7 thread	1pcs
304	GVLZ148	Male plug for above, straight	1pcs

#### Room Temperature Vacuum Feedthroughs

305	GVLZ159	24pin feedthrough, female	1pcs
306	GVLZ160	Male plug for above, straight	1pcs
307	GVLZ183	Male plug for above, 90° angle	1pcs

#### Low Temperature High Frequency Semi-rigid Coax Connectors

Wave impedance: 50Ω / Frequency range: 4-6GHz

308	GVLZ203	SMA connector, male, goldplated, straight (6GHz)	1pcs
309	GVLZ204	SMB connector, male, goldplated, straight (4GHz)	1pcs

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**EXCERPT FROM THE PRODUCT LIST**

**"CRYOGENIC ACCESSORIES"**

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#### **Rubber Bladders**

for use in liquid helium transfer

310 GVLZ261 Standard wall thickness

1pcs

311 GVLZ262 Strong wall thickness

1pcs

USt-ID (VAT-Id): DE196452322

Send us your requirements, and we'll send you back our price list  
or a formal quotation

E-mail: [gvl-cryo@t-online.de](mailto:gvl-cryo@t-online.de)

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