

# GVL Cryoengineering

## Dr. George V. Lecomte GmbH

### Meß-, Regel- und Kryotechnik

#### EXCERPT FROM THE PRODUCT LIST

#### "CRYOGENIC ACCESSORIES"

January 15, 2025 Page 1

#### 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/Molykote 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"

January 15, 2025 Page 2

#### 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	50m spool
64	GVLZ104	Phosphor-Bronze wire 0.1 mm diameter, ML insulated	100m spool
65	GVLZ193	Phosphor-Bronze wire 0.127 mm diameter, ML insulated	50m spool
66	GVLZ193	Phosphor-Bronze wire 0.127 mm diameter, ML insulated	100m spool

#### Resistance wire, varnish insulated, as twisted pair

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

#### Resistance wire, Teflon insulated, as twisted pair

71	GVLZ284	Stainless steel wire 0.12 mm diameter, FEP insulated	50m spool
72		Stainless steel wire 0.12 mm diameter, FEP insulated	100m spool
73	GVLZ288	Brass wire 0.10 mm diameter, FEP insulated	50m spool
74		Brass wire 0.10 mm diameter, FEP insulated	100m spool

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

	GVLZ201	Manganin®-wire 0.127 mm diameter, A200 insulated	
75		With Kapton outer insulation	50m spool
76		With Kapton outer insulation	100m spool
77	GVLZ208	Phosphor-Bronze wire 0.127 mm diameter, ML insulated	50m spool
78		Phosphor-Bronze wire 0.127 mm diameter, ML insulated	100m spool

#### Resistance wire, varnish insulated, as quad (four twisted wires)

79	GVLZ279	Phosphor-Bronze wire 0.127 mm diameter, ML insulated	50m spool
80		Phosphor-Bronze wire 0.127 mm diameter, ML insulated	100m spool

#### Resistance wire (uninsulated)

81	GVLZ093	Manganin®-wire 0.1 mm diameter	100m spool
82	GVLZ112	CuNi6-wire 0.4 mm diameter	100m spool
83	GVLZ172	CuNi15-wire 0.050 mm diameter	100m spool
84		CuNi15-wire 0.050 mm diameter	250m spool
85		CuNi15-wire 0.050 mm diameter	500m spool
86	GVLZ166	Brass-wire 0.050 mm diameter	100m spool
87		Brass-wire 0.050 mm diameter	250m spool
88		Brass-wire 0.050 mm diameter	500m spool
89	GVLZ146	Brass-wire 0.10 mm diameter	100m spool
90		Brass-wire 0.10 mm diameter	250m spool
91		Brass-wire 0.10 mm diameter	500m spool
92	GVLZ285	Brass-wire 0.13 mm diameter	100m spool
93		Brass-wire 0.13 mm diameter	250m spool
94		Brass-wire 0.13 mm diameter	500m spool
95	GVLZ221	Constantan-wire 0.045 mm diameter	50m spool
96		Constantan-wire 0.045 mm diameter	100m spool
97	GVLZ219	Constantan-wire 0.050 mm diameter	50m spool

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#### EXCERPT FROM THE PRODUCT LIST

#### "CRYOGENIC ACCESSORIES"

January 15, 2025 Page 3

#### Copper wire (varnish insulated)

98	GVLZ008	Copper wire 0.050 mm diameter	100m spool
99		Copper wire 0.050 mm diameter	250m spool
100		Copper wire 0.050 mm diameter	500m spool
101	GVLZ103	Copper wire 0.100 mm diameter, A200 insulated	250m spool
102		Copper wire 0.100 mm diameter, A200 insulated	500m spool
103	GVLZ062	Copper wire 0.150 mm diameter, A200 insulated	250m spool
104		Copper wire 0.150 mm diameter, A200 insulated	500m spool
105	GVLZ175	Copper wire 0.280 mm diameter	50m spool
106		Copper wire 0.280 mm diameter	100m spool
107	GVLZ063	Copper wire 0.750 mm diameter	50m spool
108		Copper wire 0.750 mm diameter	100m spool
109	GVLZ064	Copper wire 1.00 mm diameter	25m spool
110		Copper wire 1.00 mm diameter	50m spool

Other diameters and lengths on request

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

111	GVLZ234	NbTi core in <b>thin coat</b> Cu-Ni matrix, Formvar insulated, metal diameter: 0.045 mm	20m-Spool
112		metal diameter: 0.045 mm	50m-Spool
113	GVLZ113	NbTi core in Cu-Ni matrix, Formvar insulated, metal diameter: 0.05 mm	20m-Spool
114		metal diameter: 0.05 mm	50m-Spool
115	GVLZ016	NbTi core in Cu-Ni matrix, Formvar insulated, metal diameter: 0.06 mm	20m-Spool
116		metal diameter: 0.06 mm	50m-Spool
117	GVLZ136	NbTi core in Cu-Ni matrix, bare (uninsulated), metal diameter: 0.1 mm	20m-Spool
118		metal diameter: 0.1 mm	50m-Spool
119	GVLZ017	NbTi core in Cu-Ni matrix, Formvar insulated, metal diameter: 0.1 mm	20m-Spool
120		metal diameter: 0.1 mm	50m-Spool
121	GVLZ018	NbTi core in Cu-Ni matrix, HML insulated, metal diameter: 0.1 mm	20m-Spool
122		metal diameter: 0.1 mm	50m-Spool
123	GVLZ133	NbTi core in Cu-Ni matrix, MW35c insulated, metal diameter: 0.1 mm	20m-Spool
124		metal diameter: 0.1 mm	50m-Spool
125	GVLZ145	NbTi core in Cu-Ni matrix, Teflon FEP insulated, metal diameter: 0.1 mm, insulated diameter: .36 mm	20m-Spool
126		metal diameter: 0.1 mm, insulated diameter: .36 mm	50m-Spool
127	GVLZ240	NbTi core in <b>thin coat</b> Cu-Ni matrix, HML insulated, metal diameter: 0.1 mm	20m-Spool
128		metal diameter: 0.1 mm	50m-Spool
129	GVLZ019	NbTi core in Cu-Ni matrix, HML insulated, metal diameter: 0.13 mm	20m-Spool
130		metal diameter: 0.13 mm	50m-Spool
131	GVLZ283	NbTi core in Cu-Ni matrix, bare (uninsulated), metal diameter: 0.13 mm	20m-Spool
132		metal diameter: 0.13 mm	50m-Spool
133	GVLZ292	NbTi core in <b>thin coat</b> Cu-Ni matrix, bare (uninsulated), metal diameter: 0.13 mm	20m-Spool
134		metal diameter: 0.13 mm	50m-Spool
135	GVLZ020	NbTi core in Cu-Ni matrix, Formvar insulated, metal diameter: 0.25 mm	20m-Spool
136		metal diameter: 0.25 mm	50m-Spool

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#### EXCERPT FROM THE PRODUCT LIST

#### "CRYOGENIC ACCESSORIES"

January 15, 2025 Page 4

#### Superconducting wire : single NbTi filament

137	GVLZ009	NbTi wire, without matrix, bare (uninsulated), metal diameter: 0.025 mm	50m-Spool
138	GVLZ154	NbTi wire, without matrix, bare (uninsulated), metal diameter: 0.035 mm	50m-Spool
139	GVLZ096	NbTi wire, without matrix, Formvar insulated, metal diameter: 0.040 mm	20m-Spool
140	GVLZ010	NbTi wire, without matrix, Formvar insulated, metal diameter: 0.050 mm	20m-Spool
141	GVLZ182	NbTi wire, without matrix, Teflon PFA insulated, metal diameter: 0.050 mm	20m-Spool
142		metal diameter: 0.050 mm	50m-Spool
143	GVLZ184	NbTi wire, without matrix, Teflon PTFE insulated, metal diameter: 0.050 mm	20m-Spool
144		metal diameter: 0.050 mm	50m-Spool
145	GVLZ011	NbTi wire, without matrix, Formvar insulated, metal diameter: 0.075 mm	20m-Spool
146	GVLZ086	NbTi wire, without matrix, Teflon PFA insulated, metal diameter: 0.075 mm, insulated: 0.18 mm	20m-Spool
147	GVLZ210	NbTi wire, without matrix, Teflon PFA insulated, metal diameter: 0.075 mm, insulated: 0.28 mm	20m-Spool
148	GVLZ218	NbTi wire, without matrix, HML insulated, metal diameter: 0.1 mm	20m-Spool
149	GVLZ111	NbTi wire, without matrix, bare (uninsulated) metal diameter: 0.125 mm	20m-Spool
150	GVLZ134	NbTi wire, without matrix, Formvar insulated, metal diameter: 0.125 mm	20m-Spool
151	GVLZ105	NbTi wire, without matrix, HML insulated, metal diameter: 0.125 mm	20m-Spool
152	GVLZ089	NbTi wire, without matrix, Formvar insulated, metal diameter: 0.17 mm	20m-Spool
153	GVLZ013	NbTi wire, without matrix, HML insulated, metal diameter: 0.25 mm	20m-Spool
154	GVLZ012	NbTi wire, without matrix, Teflon PFA insulated, metal diameter: 0.25 mm	20m-Spool
155	GVLZ014	NbTi wire, without matrix, HML insulated, metal diameter: 0.5 mm	20m-Spool
156	GVLZ015	NbTi wire, without matrix, bare (uninsulated), metal diameter: 0.7 mm	50m-Spool
157	GVLZ152	NbTi wire, without matrix, HML insulated, metal diameter: 1.0 mm	

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

158	GVLZ021	NbTi core in Cu matrix, Formvar insulated, metal diameter: 0.025 mm	50m-Spool
159		metal diameter: 0.025 mm	100m-Spool
160	GVLZ022	NbTi core in Cu matrix, Formvar insulated, metal diameter: 0.050 mm	50m-Spool
161		metal diameter: 0.050 mm	100m-Spool
162	GVLZ091	NbTi core in Cu matrix, Formvar insulated, metal diameter: 0.075 mm	50m-Spool
163		metal diameter: 0.075 mm	100m-Spool
164	GVLZ174	NbTi core in Cu matrix, Formvar insulated, metal diameter: 0.079 mm	50m-Spool
165		metal diameter: 0.079 mm	100m-Spool
166	GVLZ023	NbTi core in Cu matrix, Formvar insulated, metal diameter: 0.1 mm	25m-Spool
167		metal diameter: 0.1 mm	50m-Spool
168		metal diameter: 0.1 mm	100m-Spool

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**EXCERPT FROM THE PRODUCT LIST**

**"CRYOGENIC ACCESSORIES"**

January 15, 2025 Page 5

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

169	GVLZ024	NbTi core in Cu matrix, Formvar insulated, metal diameter: 0.13 mm	25m-Spool
170		metal diameter: 0.13 mm	50m-Spool
171		metal diameter: 0.13 mm	100m-Spool
172	GVLZ106	NbTi core in Cu matrix, HML insulated, metal diameter: 0.13 mm	100m-Spool
173		metal diameter: 0.13 mm	250m-Spool
174	GVLZ026	NbTi core in Cu matrix, insulated, metal diameter: 0.3 mm	50m-Spool
175		metal diameter: 0.3 mm	100m-Spool
176	GVLZ027	NbTi core in Cu matrix, bare (uninsulated), metal diameter: 0.4 mm	50m-Spool
177	GVLZ211	NbTi core in Cu matrix, Formvar insulated, metal diameter: 0.5 mm	50m-Spool
178		metal diameter: 0.5 mm	100m-Spool

**Superconducting wire : Multifilament**

179	GVLZ028	Multifilament NbTi in Cu matrix, Formvar insulated metal diameter: 0.114 mm	20m-Spool
180		metal diameter: 0.114 mm	50m-Spool
181	GVLZ263	Multifilament NbTi in Cu matrix, Formvar insulated metal diameter: 0.127 mm	50m-Spool
182		metal diameter: 0.127 mm	100m-Spool
183	GVLZ170	Multifilament NbTi in Cu matrix, HML insulated metal diameter: 0.203 mm	20m-Spool
184		metal diameter: 0.203 mm	50m-Spool
185	GVLZ171	Multifilament NbTi in Cu matrix, Formvar insulated metal diameter: 0.203 mm	20m-Spool
186		metal diameter: 0.203 mm	50m-Spool
187	GVLZ252	Multifilament NbTi in Cu matrix, Formvar insulated metal diameter: 0.30 mm	20m-Spool
188		metal diameter: 0.30 mm	50m-Spool

**Superconducting wire : single Nb filament**

189	GVLZ207	Nb wire, without matrix, Formvar insulated, metal diameter: 0.050 mm	5m-Spool
190		metal diameter: 0.050 mm	20m-Spool
191	GVLZ164	Nb wire, without matrix, Formvar insulated, metal diameter: 0.125 mm	5m-Spool
192		metal diameter: 0.125 mm	20m-Spool
193	GVLZ194	Nb wire, without matrix, Polyimid insulated, metal diameter: 0.125 mm	5m-Spool
194		metal diameter: 0.125 mm	20m-Spool

**Superconducting wire : others**

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

196	GVLZ220	Au 99.9%, metal diameter: 15µm, uninsulated	5m-Spool
197	GVLZ061	Au 99.9%, metal diameter: 25µm, uninsulated	5m-Spool
198		metal diameter: 25µm, uninsulated	10m-Spool

**Silver wire for contacting**

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

**Low temperature coax cable, superconducting**

Minimum order for each type: 10m

201	GVLZ137	Coax Cable, superconducting central conductor of NbTi in CuNi matrix, bare, outer shielding of braided CuNi single wire version	per meter
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EXCERPT FROM THE PRODUCT LIST  
 "CRYOGENIC ACCESSORIES"  
 January 15, 2025 Page 6

**Low temperature coax cable, superconducting**

*Minimum order for each type: 10m*

202	GVLZ032	Coax Cable, superconducting central conductor of NbTi in CuNi matrix, varnished, outer shielding of braided single wire version	CuNi per meter	EUR	19.-
203	GVLZ031	Coax Cable, superconducting central conductor of NbTi in CuNi matrix, outer shielding of braided CuNi twisted pair version	per meter	EUR	20.-
204	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	EUR	27.-
205	GVLZ217	Coax Cable, superconducting central conductor of NbTi <b>without matrix</b> , outer shielding of braided CuNi twisted pair version	per meter	EUR	24.-
206	GVLZ223	Coax Cable, superconducting central conductor of NbTi <b>without matrix</b> , high coverage outer shielding of braided CuNi, twisted pair version	per meter	EUR	27.-
207	GVLZ030	Coax Cable, superconducting central conductor of NbTi in CuNi matrix, outer shielding of braided CuNi twisted triple wire version	per meter	EUR	22.-
208	GVLZ291	Coax Cable, superconducting central conductor of NbTi <b>in Cu matrix</b> , outer shielding of braided CuNi, twisted pair version	per meter	EUR	27.-
209	GVLZ289	Coax Cable, central conductor of NbTi in <b>thin CuNi matrix</b> (0.13mm), outer shielding of braided CuNi, twisted pair version, each wire in own Teflon sleeve	per meter	EUR	47.-

**Low temperature coax cable**

*Minimum order for each type: 10m*

210	GVLZ036	Coax Cable, central conductor of brass, approx. 8ohm/m, outer shielding of braided CuNi single wire version	per meter	EUR	18.-
211	GVLZ034	Coax Cable, central conductor of brass, approx. 4ohm/m, outer shielding of braided CuNi single conductor (double strand) version	per meter	EUR	18.-
212	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	EUR	23.-
213	GVLZ033	Coax Cable, central conductor of brass, approx. 8ohm/m, outer shielding of braided CuNi, twisted pair version, single Teflon sleeve	per meter	EUR	19.-
214	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	EUR	25.-
215	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	EUR	20.-
216	GVLZ286	Coax Cable, central conductor of brass, approx. 5ohm/m, outer shielding of braided CuNi, twisted pair version, each wire in own Teflon sleeve	per meter	EUR	24.-
217	GVLZ282	Coax Cable, central conductor of brass, approx. 8ohm/m, outer shielding of braided CuNi, with <b>outer Teflon insulation</b> , twisted pair in single Teflon sleeve	per meter	EUR	25.-
218	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	EUR	23.-

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#### "CRYOGENIC ACCESSORIES"

January 15, 2025 Page 7

#### Low temperature coax cable

Minimum order for each type: 10m

219	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
220	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
221	GVLZ265	Coax Cable, central conductor of CuNi, outer shielding of braided CuNi, 12 pairs (24 wire), low noise version, graphite loaded sleeve	per meter
222	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
223	GVLZ037	Shielding of braided CuNi alone, ~0.9mm dia.	per meter

#### Indium Wire

224	GVLZ243	Indium Wire, 99.9% Purity, 3.0mmØ	per Meter
225		Indium Wire, 99.9% Purity, 3.0mmØ	5m-Length
226	GVLZ244	Indium Wire, 99.99% Purity, 2.0mmØ	per Meter
227		Indium Wire, 99.99% Purity, 2.0mmØ	5m-Length
228	GVLZ117	Indium Wire, 99.99% Purity, 1.6mmØ	per Meter
229		Indium Wire, 99.99% Purity, 1.6mmØ	5m-Length
230	GVLZ052	Indium Wire, 99.99% Purity, 1mmØ	per Meter
231		Indium Wire, 99.99% Purity, 1mmØ	5m-Length
232	GVLZ053	Indium Wire, 99.9% Purity, 0.5mmØ	per Meter
233		Indium Wire, 99.9% Purity, 0.5mmØ	5m-Length

#### Indium Foil

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

235	GVLZ099	High temperature insulating sleeve, inside diameter: 0.4 mm (o.d. 1mm)	per Meter
236		inside diameter: 0.4 mm (o.d. 1mm)	25m-Spool
237	GVLZ100	High temperature insulating sleeve, inside diameter: 1.6 mm (o.d. 2.4m)	per Meter
238		inside diameter: 1.6 mm (o.d. 2.4mm)	20m-Spool

#### PTFE insulating sleeves

239	GVLZ069	PTFE insulating sleeve, od 0.7mm id 0.3mm	10m-Spool
240	GVLZ070	PTFE insulating sleeve, od 0.7mm id 0.5mm	10m-Spool
241	GVLZ071	PTFE insulating sleeve, od 0.8mm id 0.5mm	10m-Spool
242	GVLZ072	PTFE insulating sleeve, od 0.8mm id 0.6mm	10m-Spool
243	GVLZ073	PTFE insulating sleeve, od 1.0mm id 0.7mm	10m-Spool
244	GVLZ074	PTFE insulating sleeve, od 1.0mm id 0.8mm	10m-Spool
245	GVLZ075	PTFE insulating sleeve, od 1.2mm id 1.0mm	10m-Spool
246	GVLZ090	PTFE insulating sleeve, od 1.6mm id 1.0mm	10m-Spool
247	GVLZ180	PTFE insulating sleeve, od 6.0mm id 2.0mm	10m-Spool

#### SQUID leads shielding sleeves

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

249	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.

250	GVLZ191	Copper capillary, od: 0.8mm; id: 0.4mm	per Meter
251	GVLZ187	Copper capillary, od: 0.8mm; id: 0.5mm	per Meter
252	GVLZ040	Copper capillary, od: 1.0mm; id: 0.25mm	per Meter
253	GVLZ161	Copper capillary, od: 1.5mm; id: 1.0mm	per Meter
254	GVLZ162	Copper capillary, od: 2.0mm; id: 1.5mm	per Meter
255	GVLZ238	Copper capillary, od: 2.3mm; id: 2.0mm	per Meter

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# GVL Cryoengineering

## Dr. George V. Lecomte GmbH

### Meß-, Regel- und Kryotechnik

#### EXCERPT FROM THE PRODUCT LIST

#### "CRYOGENIC ACCESSORIES"

January 15, 2025 Page 8

#### 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

256	GVLZ041	CuNi capillary, od: 0.3mm; id: 0.1mm,	per Meter
257	GVLZ142	CuNi capillary, od: 0.4mm; id: 0.1mm,	per Meter
258	GVLZ042	CuNi capillary, od: 0.4mm; id: 0.2mm,	per Meter
259	GVLZ065	CuNi capillary, od: 0.5mm; id: 0.2mm,	per Meter
260	GVLZ043	CuNi capillary, od: 0.5mm; id: 0.3mm,	per Meter
261	GVLZ088	CuNi capillary, od: 0.6mm; id: 0.3mm,	per Meter
262	GVLZ044	CuNi capillary, od: 0.7mm; id: 0.4mm,	per Meter
263	GVLZ078	CuNi capillary, od: 0.7mm; id: 0.5mm,	per Meter
264	GVLZ045	CuNi capillary, od: 0.8mm; id: 0.6mm,	per Meter
265	GVLZ107	CuNi capillary, od: 0.9mm; id: 0.5mm,	per Meter
266	GVLZ114	CuNi capillary, od: 0.9mm; id: 0.6mm,	per Meter
267	GVLZ168	CuNi capillary, od: 1.0mm; id: 0.5mm,	per Meter
268	GVLZ046	CuNi capillary, od: 1.0mm; id: 0.7mm,	per Meter
269	GVLZ143	CuNi capillary, od: 1.1mm; id: 0.9mm,	per Meter
270	GVLZ066	CuNi capillary, od: 1.2mm; id: 0.8mm,	per Meter
271	GVLZ047	CuNi capillary, od: 1.4mm; id: 1.0mm,	per Meter
272	GVLZ144	CuNi capillary, od: 1.4mm; id: 1.2mm,	per Meter
273	GVLZ067	CuNi capillary, od: 1.5mm; id: 1.0mm,	per Meter
274	GVLZ139	CuNi capillary, od: 1.9mm; id: 1.2mm,	per Meter
275	GVLZ108	CuNi capillary, od: 1.9mm; id: 1.5mm,	per Meter
276	GVLZ120	CuNi capillary, od: 2.0mm; id: 1.5mm,	per Meter
277	GVLZ068	CuNi capillary, od: 2.0mm; id: 1.6mm,	per Meter
278	GVLZ138	CuNi capillary, od: 2.2mm; id: 1.2mm,	per Meter
279	GVLZ109	CuNi capillary, od: 2.4mm; id: 2.0mm,	per Meter
280	GVLZ121	CuNi capillary, od: 2.5mm; id: 2.0mm,	per Meter
281	GVLZ186	CuNi capillary, od: 3.0mm; id: 2.0mm,	per Meter
282	GVLZ110	CuNi capillary, od: 3.0mm; id: 2.5mm,	per Meter
283	GVLZ048	CuNi capillary, od: 3.0mm; id: 2.6mm,	per Meter
284	GVLZ122	CuNi capillary, od: 3.5mm; id: 3.0mm,	per Meter
285	GVLZ123	CuNi capillary, od: 4.0mm; id: 3.5mm,	per Meter
286	GVLZ049	CuNi capillary, od: 4.0mm; id: 3.6mm,	per Meter
287	GVLZ131	CuNi capillary, od: 4.5mm; id: 4.0mm,	per Meter
288	GVLZ124	CuNi capillary, od: 5.0mm; id: 4.0mm,	per Meter
289	GVLZ250	CuNi capillary, od: 5.0mm; id: 4.5mm,	per Meter
290	GVLZ251	CuNi capillary, od: 5.5mm; id: 5.0mm,	per Meter
291	GVLZ125	CuNi capillary, od: 6.0mm; id: 5.0mm,	per Meter
292	GVLZ173	CuNi capillary, od: 6.0mm; id: 5.4mm,	per Meter
293	GVLZ115	CuNi capillary, od: 6.0mm; id: 5.5mm,	per Meter
294	GVLZ116	CuNi capillary, od: 7.0mm; id: 6.0mm,	per Meter
295	GVLZ126	CuNi capillary, od: 8.0mm; id: 7.0mm,	per Meter
296	GVLZ132	CuNi capillary, od: 12.0mm; id: 11.0mm,	per Meter
297	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]

298	GVLZ253	CuNi capillary, od: 1.0mm; id: 0.6mm,	per Meter
299	GVLZ280	CuNi capillary, od: 2.6mm; id: 2.2mm,	per Meter

#### 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)

300	GVLZ225	1.4301 SS capillary, od: 5.0mm; id: 4.6mm
301	GVLZ232	1.4301 SS capillary, od: 7.0mm; id: 6.6mm
302	GVLZ226	1.4301 SS capillary, od: 8.0mm; id: 7.6mm
303	GVLZ227	1.4301 SS capillary, od: 8.4mm; id: 8.0mm

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#### EXCERPT FROM THE PRODUCT LIST

#### "CRYOGENIC ACCESSORIES"

January 15, 2025 Page 9

304 GVLZ228 1.4301 SS capillary, od: 10.0mm; id: 9.0mm  
305 GVLZ233 1.4301 SS capillary, od: 10.6mm; id: 10.0mm  
306 GVLZ229 1.4301 SS capillary, od: 11.0mm; id: 10.0mm  
307 GVLZ230 1.4301 SS capillary, od: 12.0mm; id: 11.0mm  
308 GVLZ242 1.4301 SS tw tube, od: 22mm; id: 21mm  
309 GVLZ231 1.4301 SS tw tube, od: 25mm; id: 24mm

#### Bondable Terminals

310 GVLZ082 4 contact pairs, 2.7mm x 10.2mm 70pcs  
311 GVLZ083 4 contact pairs, 3.4mm x 13.8mm 60pcs  
312 GVLZ084 4 contact pairs, 4.5mm x 17.4mm 50pcs  
313 GVLZ085 4 contact pairs, 6.4mm x 23.4mm 30pcs

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

314 GVLZ156 12 contact pairs, male 1pcs  
315 GVLZ157 12 contact pairs, female 1pcs  
316 GVLZ158 12 contact pairs, female, low profile 1pcs  
317 GVLZ129 20 contact pairs, male 1pcs  
318 GVLZ130 20 contact pairs, female 1pcs  
319 GVLZ155 20 contact pairs, female, low profile 1pcs

#### Low Temperature MCX-Miniature Coax Connectors

Wave impedance: 50Ω / Frequency range: 2GHz

320 GVLZ118 MCX connector, male, goldplated, straight 1pcs  
321 GVLZ119 MCX connector, male, goldplated, 90° angle 1pcs  
322 GVLZ153 MCX connector, female, goldplated, straight 1pcs  
323 GVLZ102 MCX connector, female, goldplated, threaded mount 1pcs

#### Room Temperature Coax Vacuum Feedthroughs

Wave impedance: 50Ω / Frequency range: 1.5GHz

324 GVLZ147 Coax feedthrough, female, M7 thread 1pcs  
325 GVLZ148 Male plug for above, straight 1pcs

#### Room Temperature Vacuum Feedthroughs

326 GVLZ159 24pin feedthrough, female 1pcs  
327 GVLZ160 Male plug for above, straight 1pcs  
328 GVLZ183 Male plug for above, 90° angle 1pcs

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

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

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

#### Rubber Bladders

for use in liquid helium transfer

331 GVLZ261 Standard wall thickness 1pcs  
332 GVLZ262 Strong wall thickness 1pcs

USt-ID (VAT-Id): DE196452322

#### Banking information:

Deutsche Bank Aachen, Trierer Str. 746 D-52078 Aachen  
account number: IBAN: DE52 3907 0024 0270 3783 00 SWIFT: DEUTDEDB390

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