

# GVL Cryoengineering

## Dr. George V. Lecomte GmbH

### Meß-, Regel- und Kryotechnik

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#### 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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GVL Cryoengineering  
 Dr George V. Lecomte GmbH  
 Aachener Str.89, D-52223 Stolberg (Rheinl.)  
 VAT-Id: DE196452322

Tel. 02402 24566  
 Fax 02402 26739  
 E-mail: GVL-CRYO@T-online.de  
 www.GVL-Cryoengineering.com

Sitz: 52223 Stolberg, AG Aachen HRB 10733  
 Deutsche Bank Aachen IBAN: DE52 3907 0024 0270 3783 00  
 Geschäftsführer: Dr. G. V. Lecomte

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### Meß-, Regel- und Kryotechnik

#### 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

#### Resistance 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

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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	20m-Spool

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#### Superconducting wire : single NbTi filament

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

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

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

#### Superconducting wire : Multifilament

159	GVLZ028	Multifilament NbTi in Cu matrix, Formvar insulated metal diameter: 0.114 mm	20m-Spool
160		metal diameter: 0.114 mm	50m-Spool
161	GVLZ170	Multifilament NbTi in Cu matrix, HML insulated metal diameter: 0.203 mm	20m-Spool
162		metal diameter: 0.203 mm	50m-Spool
163	GVLZ171	Multifilament NbTi in Cu matrix, Formvar insulated metal diameter: 0.203 mm	20m-Spool
164		metal diameter: 0.203 mm	50m-Spool

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#### Superconducting wire : Multifilament

GVLZ252	Multifilament NbTi in Cu matrix, Formvar insulated	
165	metal diameter: 0.30 mm	20m-Spool
166	metal diameter: 0.30 mm	50m-Spool

#### Superconducting wire : single Nb filament

GVLZ207	Nb wire, without matrix, Formvar insulated,	
167	metal diameter: 0.050 mm	5m-Spool
168	metal diameter: 0.050 mm	20m-Spool
GVLZ164	Nb wire, without matrix, Formvar insulated,	
169	metal diameter: 0.125 mm	5m-Spool
170	metal diameter: 0.125 mm	20m-Spool
GVLZ194	Nb wire, without matrix, Polyimid insulated,	
171	metal diameter: 0.125 mm	5m-Spool
172	metal diameter: 0.125 mm	20m-Spool

#### Superconducting wire : others

GVLZ098	Nb3Sn Wire in Cu-Ni Matrix, untreated,	
173	uninsulated, metal diameter: 0.13 mm	

#### Gold wire for contacting

174	GVLZ220 Au 99.9%, metal diameter: 15µm, uninsulated	5m-Spool
175	GVLZ061 Au 99.9%, metal diameter: 25µm, uninsulated	5m-Spool
176	metal diameter: 25µm, uninsulated	10m-Spool

#### Silver wire for contacting

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

#### Low temperature coax cable, superconducting

Minimum order for each type: 10m

179	GVLZ137 Coax Cable, superconducting central conductor of NbTi in CuNi matrix, bare, outer shielding of braided CuNi single wire version	per meter
180	GVLZ032 Coax Cable, superconducting central conductor of NbTi in CuNi matrix, varnished, outer shielding of braided CuNi single wire version	per meter
181	GVLZ031 Coax Cable, superconducting central conductor of NbTi in CuNi matrix, outer shielding of braided CuNi twisted pair version	per meter
182	GVLZ241 Coax Cable, superconducting central conductor of NbTi with thin CuNi matrix, high coverage outer shielding of braided CuNi, twisted pair version	per meter
183	GVLZ217 Coax Cable, superconducting central conductor of NbTi without matrix, outer shielding of braided CuNi twisted pair version	per meter
184	GVLZ223 Coax Cable, superconducting central conductor of NbTi without matrix, high coverage outer shielding of braided CuNi, twisted pair version	per meter
185	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

186	GVLZ036 Coax Cable, central conductor of brass, approx. 8ohm/m, outer shielding of braided CuNi single wire version	per meter
187	GVLZ034 Coax Cable, central conductor of brass, approx. 4ohm/m, outer shielding of braided CuNi single conductor (double strand) version	per meter
188	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

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#### Low temperature coax cable

Minimum order for each type: 10m

189	GVLZ033	Coax Cable, central conductor of brass, approx. 8ohm/m, outer shielding of braided CuNi, twisted pair version, single Teflon sleeve	per meter
190	GVLZ224	Coax Cable, central conductor of brass, approx. 8ohm/m, high coverage outer shielding of braided CuNi, quad wire version, single Teflon sleeve	per meter
191	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
192	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
193	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
194	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
195	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
196	GVLZ037	Shielding of braided CuNi alone, ~0.9mm dia.	per meter

#### Indium Wire

197	GVLZ243	Indium Wire, 99.9% Purity, 3.0mmØ	per Meter
198		Indium Wire, 99.9% Purity, 3.0mmØ	5m-Length
199	GVLZ244	Indium Wire, 99.99% Purity, 2.0mmØ	per Meter
200		Indium Wire, 99.99% Purity, 2.0mmØ	5m-Length
201	GVLZ117	Indium Wire, 99.99% Purity, 1.6mmØ	per Meter
202		Indium Wire, 99.99% Purity, 1.6mmØ	5m-Length
203	GVLZ052	Indium Wire, 99.99% Purity, 1mmØ	per Meter
204		Indium Wire, 99.99% Purity, 1mmØ	5m-Length
205	GVLZ053	Indium Wire, 99.9% Purity, 0.5mmØ	per Meter
206		Indium Wire, 99.9% Purity, 0.5mmØ	5m-Length

#### Indium Foil

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

208	GVLZ099	High temperature insulating sleeve, inside diameter: 0.4 mm (o.d. 1mm)	per Meter
209		inside diameter: 0.4 mm (o.d. 1mm)	25m-Spool
210	GVLZ100	High temperature insulating sleeve, inside diameter: 1.6 mm (o.d. 2.4mm)	per Meter
211		inside diameter: 1.6 mm (o.d. 2.4mm)	20m-Spool

#### PTFE insulating sleeves

212	GVLZ069	PTFE insulating sleeve, od 0.7mm id 0.3mm	10m-Spool
213	GVLZ070	PTFE insulating sleeve, od 0.7mm id 0.5mm	10m-Spool
214	GVLZ071	PTFE insulating sleeve, od 0.8mm id 0.5mm	10m-Spool
215	GVLZ072	PTFE insulating sleeve, od 0.8mm id 0.6mm	10m-Spool
216	GVLZ073	PTFE insulating sleeve, od 1.0mm id 0.7mm	10m-Spool
217	GVLZ074	PTFE insulating sleeve, od 1.0mm id 0.8mm	10m-Spool
218	GVLZ075	PTFE insulating sleeve, od 1.2mm id 1.0mm	10m-Spool
219	GVLZ090	PTFE insulating sleeve, od 1.6mm id 1.0mm	10m-Spool
220	GVLZ180	PTFE insulating sleeve, od 6.0mm id 2.0mm	10m-Spool

#### SQUID leads shielding sleeves

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

222	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.

223	GVLZ191	Copper capillary, od: 0.8mm; id: 0.4mm	per Meter
224	GVLZ187	Copper capillary, od: 0.8mm; id: 0.5mm	per Meter
225	GVLZ040	Copper capillary, od: 1.0mm; id: 0.25mm	per Meter
226	GVLZ161	Copper capillary, od: 1.5mm; id: 1.0mm	per Meter
227	GVLZ162	Copper capillary, od: 2.0mm; id: 1.5mm	per Meter
228	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

229	GVLZ041	CuNi capillary, od: 0.3mm; id: 0.1mm,	per Meter
230	GVLZ142	CuNi capillary, od: 0.4mm; id: 0.1mm,	per Meter
231	GVLZ042	CuNi capillary, od: 0.4mm; id: 0.2mm,	per Meter
232	GVLZ065	CuNi capillary, od: 0.5mm; id: 0.2mm,	per Meter
233	GVLZ043	CuNi capillary, od: 0.5mm; id: 0.3mm,	per Meter
234	GVLZ088	CuNi capillary, od: 0.6mm; id: 0.3mm,	per Meter
235	GVLZ044	CuNi capillary, od: 0.7mm; id: 0.4mm,	per Meter
236	GVLZ078	CuNi capillary, od: 0.7mm; id: 0.5mm,	per Meter
237	GVLZ045	CuNi capillary, od: 0.8mm; id: 0.6mm,	per Meter
238	GVLZ107	CuNi capillary, od: 0.9mm; id: 0.5mm,	per Meter
239	GVLZ114	CuNi capillary, od: 0.9mm; id: 0.6mm,	per Meter
240	GVLZ168	CuNi capillary, od: 1.0mm; id: 0.5mm,	per Meter
241	GVLZ046	CuNi capillary, od: 1.0mm; id: 0.7mm,	per Meter
242	GVLZ143	CuNi capillary, od: 1.1mm; id: 0.9mm,	per Meter
243	GVLZ066	CuNi capillary, od: 1.2mm; id: 0.8mm,	per Meter
244	GVLZ047	CuNi capillary, od: 1.4mm; id: 1.0mm,	per Meter
245	GVLZ144	CuNi capillary, od: 1.4mm; id: 1.2mm,	per Meter
246	GVLZ067	CuNi capillary, od: 1.5mm; id: 1.0mm,	per Meter
247	GVLZ139	CuNi capillary, od: 1.9mm; id: 1.2mm,	per Meter
248	GVLZ108	CuNi capillary, od: 1.9mm; id: 1.5mm,	per Meter
249	GVLZ120	CuNi capillary, od: 2.0mm; id: 1.5mm,	per Meter
250	GVLZ068	CuNi capillary, od: 2.0mm; id: 1.6mm,	per Meter
251	GVLZ138	CuNi capillary, od: 2.2mm; id: 1.2mm,	per Meter
252	GVLZ109	CuNi capillary, od: 2.4mm; id: 2.0mm,	per Meter
253	GVLZ121	CuNi capillary, od: 2.5mm; id: 2.0mm,	per Meter
254	GVLZ186	CuNi capillary, od: 3.0mm; id: 2.0mm,	per Meter
255	GVLZ110	CuNi capillary, od: 3.0mm; id: 2.5mm,	per Meter
256	GVLZ048	CuNi capillary, od: 3.0mm; id: 2.6mm,	per Meter
257	GVLZ122	CuNi capillary, od: 3.5mm; id: 3.0mm,	per Meter
258	GVLZ123	CuNi capillary, od: 4.0mm; id: 3.5mm,	per Meter
259	GVLZ049	CuNi capillary, od: 4.0mm; id: 3.6mm,	per Meter
260	GVLZ131	CuNi capillary, od: 4.5mm; id: 4.0mm,	per Meter
261	GVLZ124	CuNi capillary, od: 5.0mm; id: 4.0mm,	per Meter
262	GVLZ250	CuNi capillary, od: 5.0mm; id: 4.5mm,	per Meter
263	GVLZ251	CuNi capillary, od: 5.5mm; id: 5.0mm,	per Meter
264	GVLZ125	CuNi capillary, od: 6.0mm; id: 5.0mm,	per Meter
265	GVLZ173	CuNi capillary, od: 6.0mm; id: 5.4mm,	per Meter
266	GVLZ115	CuNi capillary, od: 6.0mm; id: 5.5mm,	per Meter
267	GVLZ116	CuNi capillary, od: 7.0mm; id: 6.0mm,	per Meter
268	GVLZ126	CuNi capillary, od: 8.0mm; id: 7.0mm,	per Meter
269	GVLZ132	CuNi capillary, od: 12.0mm; id: 11.0mm,	per Meter
270	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]

271	GVLZ253	CuNi capillary, od: 1.0mm; id: 0.6mm,	per Meter
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*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 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 - ask for quote

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

272	GVLZ225	1.4301 SS capillary, od: 5.0mm; id: 4.6mm	
273	GVLZ232	1.4301 SS capillary, od: 7.0mm; id: 6.6mm	
274	GVLZ226	1.4301 SS capillary, od: 8.0mm; id: 7.6mm	
275	GVLZ227	1.4301 SS capillary, od: 8.4mm; id: 8.0mm	
276	GVLZ228	1.4301 SS capillary, od: 10.0mm; id: 9.0mm	
277	GVLZ233	1.4301 SS capillary, od: 10.6mm; id: 10.0mm	
278	GVLZ229	1.4301 SS capillary, od: 11.0mm; id: 10.0mm	
279	GVLZ230	1.4301 SS capillary, od: 12.0mm; id: 11.0mm	
280	GVLZ242	1.4301 SS tw tube, od: 22mm; id: 21mm	
281	GVLZ231	1.4301 SS tw tube, od: 25mm; id: 24mm	

#### Bondable Terminals

282	GVLZ082	4 contact pairs, 2.7mm x 10.2mm	70pcs
283	GVLZ083	4 contact pairs, 3.4mm x 13.8mm	60pcs
284	GVLZ084	4 contact pairs, 4.5mm x 17.4mm	50pcs
285	GVLZ085	4 contact pairs, 6.4mm x 23.4mm	30pcs

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

286	GVLZ156	12 contact pairs, male	1pcs
287	GVLZ157	12 contact pairs, female	1pcs
288	GVLZ158	12 contact pairs, female, low profile	1pcs
289	GVLZ129	20 contact pairs, male	1pcs
290	GVLZ130	20 contact pairs, female	1pcs
291	GVLZ155	20 contact pairs, female, low profile	1pcs

#### Low Temperature MCX-Miniature Coax Connectors

Wave impedance: 50Ω / Frequency range: 2GHz

292	GVLZ118	MCX connector, male, goldplated, straight	1pcs
293	GVLZ119	MCX connector, male, goldplated, 90° angle	1pcs
294	GVLZ153	MCX connector, female, goldplated, straight	1pcs
295	GVLZ102	MCX connector, female, goldplated, threaded mount	1pcs

#### Room Temperature Coax Vacuum Feedthroughs

Wave impedance: 50Ω / Frequency range: 1.5GHz

296	GVLZ147	Coax feedthrough, female, M7 thread	1pcs
297	GVLZ148	Male plug for above, straight	1pcs

#### Room Temperature Vacuum Feedthroughs

298	GVLZ159	24pin feedthrough, female	1pcs
299	GVLZ160	Male plug for above, straight	1pcs
300	GVLZ183	Male plug for above, 90° angle	1pcs

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

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

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

#### Rubber Bladders

for use in liquid helium transfer

303	GVLZ261	Standard wall thickness	1pcs
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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

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  
Aachener Str.89, D-52223 Stolberg (Rheinl.)  
VAT-Id: DE196452322

Tel. 02402 24566  
Fax 02402 26739  
E-mail: GVL-CRYO@T-online.de  
www.GVL-Cryoengineering.com

Sitz: 52223 Stolberg, AG Aachen HRB 10733  
Deutsche Bank Aachen IBAN: DE52 3907 0024 0270 3783 00  
Geschäftsführer: Dr. G. V. Lecomte