Super OMEGAACLAD™ XL Thermocouple Probes

A Technological Advance in Temperature Measurement

- Thermocouple Technology from Omega for K and N Calibrations Only
- Super Stable Temperature Drift—Less than 2.8°C (37°F) in 25 weeks
- Better Performance at a Smaller Size—0.8 mm (0.032”) Probe Withstands 815°C (1500°F) for 3 Years
- Probe Life Expectancy up to 10 Times Greater than Competing Devices*
- Handles Temperatures Up to 1335°C (2400°F)

Omega brings you the Super OMEGAACLAD™ XL Thermocouple Probe family, the exclusive innovation in thermocouple technology. Manufactured using state-of-the-art processes for mineral insulated (MI) thermocouple cable and finished thermocouple probe assemblies, these temperature sensors maximize performance, even at extremely small diameters. The devices resist carburization, oxidation, and chlorination in tough environments.

Small Size, Big Performance!
Typical 0.8 mm (0.032”) Dia. Type K probes have a maximum temperature of 700°C (1260°F). Our Super OMEGAACLAD™ XL 0.8 mm (0.032”) Dia. probe took on 815°C (1500°F) for 3 years and even reached 1000°C (1832°F) for 2 months!

Inconel® 600 probe failure

Standard Limits of Error
Special Limits of Error

Super OMEGAACLAD™ XL vs Inconel® 600, 0.8 mm (0.032”) Dia., Type K Maintained at 815°C (1500°F)

<table>
<thead>
<tr>
<th>Test Temperature in Degrees Celsius</th>
<th>Super OMEGAACLAD™ XL</th>
<th>Inconel 600 Probe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Limits of Error</td>
<td>1300</td>
<td>1050</td>
</tr>
<tr>
<td>Special Limits of Error</td>
<td>1350</td>
<td>1100</td>
</tr>
</tbody>
</table>

Probes shown ~50% smaller than actual size.
** Approx. response time—ungrounded in water

Long Life, Low Maintenance!
If your application operates at the punishing temperature of nearly 1204°C (2200°F), changing out failed thermocouples costs money in excessive maintenance, slows or cuts production, and can cause inconsistent product quality.

In head-to-head tests, Super OMEGAACLAD™ XL thermocouple probes consistently post the best performance results. Our innovative temperature sensors last upwards of 10 times or longer when compared to competitors’ Inconel 600 sheathed probes of equal or larger diameters. Let Omega’s leading edge products help engineer your next innovation!

1204°C (2200°F) replace 17 of theirs in 52 days or just one of ours!
In life-cycle lab testing, the OMEGAACLAD™ XL sheathed, 3 mm (0.125”) Type K Probe operated continuously for 52 days at 1204°C (2200°F) while competitors’ 3 mm (0.125”) Inconel 600 sheathed, Type K probes lasted 3 days†.
† Results will vary on application and operating environment.

High Performance!
An Exclusive OMEGA Manufactured Innovation

† Results will vary on application and operating environment.
Low Drift, Reliable Temperatures!

Super OMEGAACLAD™ XL's low-drift characteristic ensures reliability of temperature readings longer than any other brand or sheath material. Within 15 weeks, Brands A, B, and C exhibited more than 8.3°C (47°F) drift. At 25 weeks, OMEGAACLAD™ XL's drift was less than 2.8°C (37°F).*

* Tests conducted using ungrounded probes in an open-air, electric muffle furnace versus a Type “S”, NIST-traceable standard. Individual results may vary depending on customer application. Inconel® is a registered trademark of Special Metals Corporation.

TJ36-CAXL-18U-12, shown smaller than actual size. Visit OMEGA for Super OMEGAACLAD™ XL probe offerings.

Take on High Temperatures!

In tests up to 1338°C (2400°F), Super OMEGAACLAD™ XL outperformed both the Inconel 600 and other competing high-temperature models.

Omega’s products making Omega’s products. Omega uses Super OMEGAACLAD™ XL thermocouple probes in its Class 10 clean rooms to monitor critical process temperatures and achieve consistent, high-quality products.
**Super OMEGAACLAD™ XL Probes**

**Very Low Drift at High Temperatures**

Super Accurate, Super Stable, Super Value—**Standard Dimensions**

- For Use Up to 1338°C (2400°F)
- Excellent Long-Term Stability at High Temperatures
- Larger Diameter Available (Consult Sales)

**Standard Dimension—Quick-Connect Probes**

<table>
<thead>
<tr>
<th>ANSI Color Code/Alloy</th>
<th>Sheath Dia. inches</th>
<th>Model Number ANSI Color Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MOLDED STANDARD CONNECTOR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K CHROMEGA™-ALOMEGA™ XL Sheath</td>
<td>⅛</td>
<td>KQXL-116-</td>
</tr>
<tr>
<td></td>
<td>⅜</td>
<td>KQXL-181-</td>
</tr>
<tr>
<td></td>
<td>⅜</td>
<td>KQXL-316[</td>
</tr>
<tr>
<td></td>
<td>⅛</td>
<td>KQXL-14[</td>
</tr>
<tr>
<td>N OMEGA-P™-OMEGA-N™ XL Sheath</td>
<td>⅛</td>
<td>NQXL-116[</td>
</tr>
<tr>
<td></td>
<td>¾</td>
<td>NQXL-181[</td>
</tr>
<tr>
<td></td>
<td>½</td>
<td>NQXL-316[</td>
</tr>
<tr>
<td></td>
<td>¾</td>
<td>NQXL-14[</td>
</tr>
</tbody>
</table>

| **MINIATURE CONNECTOR** |
| K CHROMEGA™-ALOMEGA™ XL Sheath | 0.010 | SCAXL-010[| | [++] |
| | 0.020 | SCAXL-020[| | [++] |
| | 0.032 | SCAXL-032[| | [++] |
| | 0.040 | KMQLX-040[| | [++] |
| | 0.062 | KMQLX-062[| | [++] |
| | 0.125 | KMQLX-125[| | [++] |
| N OMEGA-P™-OMEGA-N™ XL Sheath | 0.020 | NQXL-020[| | [++] |
| | 0.032 | NQXL-032[| | [++] |
| | 0.040 | NQXL-040[| | [++] |
| | 0.062 | NQXL-062[| | [++] |
| | 0.125 | NQXL-125[| | [++] |

**Standard Dimension—Transition Junction Probes**

<table>
<thead>
<tr>
<th>ANSI Color Code/Alloy</th>
<th>Sheath Dia. (inches)</th>
<th>Model Number ANSI Color Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HEAVY DUTY TRANSITION JUNCTION PROBE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K CHROMEGA™-ALOMEGA™ XL Sheath</td>
<td>⅛</td>
<td>TJ36-CAXL-116[</td>
</tr>
<tr>
<td></td>
<td>⅜</td>
<td>TJ36-CAXL-181[</td>
</tr>
<tr>
<td></td>
<td>⅞</td>
<td>TJ36-CAXL-316[</td>
</tr>
<tr>
<td></td>
<td>⅛</td>
<td>TJ36-CAXL-14[</td>
</tr>
<tr>
<td></td>
<td>⅟</td>
<td>TJ36-CAXL-38[</td>
</tr>
<tr>
<td>N OMEGA-P™-OMEGA-N™ XL Sheath</td>
<td>⅛</td>
<td>TJ36-MNXL-116[</td>
</tr>
<tr>
<td></td>
<td>⅜</td>
<td>TJ36-MNXL-181[</td>
</tr>
<tr>
<td></td>
<td>⅞</td>
<td>TJ36-MNXL-316[</td>
</tr>
<tr>
<td></td>
<td>⅛</td>
<td>TJ36-MNXL-14[</td>
</tr>
<tr>
<td></td>
<td>⅟</td>
<td>TJ36-MNXL-38[</td>
</tr>
</tbody>
</table>

| **MINIATURE TRANSITION JUNCTION PROBE** |
| K CHROMEGA™-ALOMEGA™ XL Sheath | 0.010 | KMTXL-010[| | [++] |
| | 0.020 | KMTXL-020[| | [++] |
| | 0.032 | KMTXL-032[| | [++] |
| | 0.040 | KMTXL-040[| | [++] |
| | 0.062 | KMTXL-062[| | [++] |
| | 0.125 | KMTXL-125[| | [++] |
| N OMEGA-P™-OMEGA-N™ XL Sheath | 0.020 | NMTXL-020[| | [++] |
| | 0.032 | NMTXL-032[| | [++] |
| | 0.040 | NMTXL-040[| | [++] |
| | 0.062 | NMTXL-062[| | [++] |
| | 0.125 | NMTXL-125[| | [++] |

**Note:** Probes with 0.032" diameter and larger are supplied with molded transition joints. Smaller-sized probes are supplied with stainless steel transition joints. Stripped leads standard.

[++] Specify junction type: “G” (Grounded), “E” (Exposed) or “U” (Ungrounded).

For a male straight M8 plug add “M8-S-M” to the model number, for a male straight M12 plug add “M12-S-M” to the model number, for a male right-angled M8 plug add “M8-R-M” to the model number, for a male right-angled M12 plug add “M12-S-M” to the model number and additional cost to the price.

See accessory charts on page 7 for ordering the compatible mating connectors.

**Ordering Example for Quick-Connect Probes:** KQXL-18U-12, molded quick-connect probe, Type K (CHROMEGA-ALOMEGA), SUPER OMEGAACLAD XL sheath, ⅛ OD, ungrounded junction, 12".
Super OMEGAACLAD™ XL Probes
Very Low Drift at High Temperatures
Super Accurate, Super Stable, Super Value—**Metric Dimensions**

- For Use Up to 1338°C (2400°F)
- Excellent Long-Term Stability at High Temperatures
- Larger Diameter Available (Consult Sales)

**Metric Dimension—Quick-Connect Probes**

<table>
<thead>
<tr>
<th>ANSI Color Code/Alloy</th>
<th>Sheath Dia. (mm)</th>
<th>Model Number ANSI Color Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MOLDED STANDARD CONNECTOR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K CHROMEGAM™-ALOMEGA™ XL Sheath</td>
<td>1.5</td>
<td>KQXL-M15*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>3.0</td>
<td>KQXL-M30*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>4.5</td>
<td>KQXL-M45*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>6.0</td>
<td>KQXL-M60*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td>N OMEGA-P™-OMEGA-N™ XL Sheath</td>
<td>1.5</td>
<td>NQXL-M15*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>3.0</td>
<td>NQXL-M30*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>4.5</td>
<td>NQXL-M45*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>6.0</td>
<td>NQXL-M60*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td><strong>MINIATURE CONNECTOR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K CHROMEGAM™-ALOMEGA™ XL Sheath</td>
<td>0.25</td>
<td>KMQXL-M025*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>0.5</td>
<td>KMQXL-M050*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>0.75</td>
<td>KMQXL-M075*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>1.0</td>
<td>KMQXL-M100*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td>KMQXL-M150*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>3.0</td>
<td>KMQXL-M300*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td>N OMEGA-P™-OMEGA-N™ XL Sheath</td>
<td>0.5</td>
<td>NMQXL-M050*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>0.75</td>
<td>NMQXL-M075*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>1.0</td>
<td>NMQXL-M100*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td>NMQXL-M150*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>3.0</td>
<td>NMQXL-M300*[^1]<em>[^2]</em>[^3]*</td>
</tr>
</tbody>
</table>

**Metric Dimension—Transition Junction Probes**

<table>
<thead>
<tr>
<th>ANSI Color Code/Alloy</th>
<th>Sheath Dia. (mm)</th>
<th>Model Number ANSI Color Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HEAVY-DUTY TRANSITION JUNCTION PROBE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K CHROMEGAM™-ALOMEGA™ XL Sheath</td>
<td>1.5</td>
<td>TJ36-CAXL-M15*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>3.0</td>
<td>TJ36-CAXL-M30*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>4.5</td>
<td>TJ36-CAXL-M45*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>6.0</td>
<td>TJ36-CAXL-M60*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>8.0</td>
<td>TJ36-CAXL-M80*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>9.5</td>
<td>TJ36-CAXL-M95*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td>N OMEGA-P™-OMEGA-N™ XL Sheath</td>
<td>1.5</td>
<td>TJ36-NNXL-M15*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>3.0</td>
<td>TJ36-NNXL-M30*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>4.5</td>
<td>TJ36-NNXL-M45*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>6.0</td>
<td>TJ36-NNXL-M60*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>8.0</td>
<td>TJ36-NNXL-M80*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>9.5</td>
<td>TJ36-NNXL-M95*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td><strong>MINIATURE TRANSITION JUNCTION PROBE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K CHROMEGAM™-ALOMEGA™ XL Sheath</td>
<td>0.25</td>
<td>KMTXL-M025*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>0.5</td>
<td>KMTXL-M050*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>0.75</td>
<td>KMTXL-M075*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>1.0</td>
<td>KMTXL-M100*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td>KMTXL-M150*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>3.0</td>
<td>KMTXL-M300*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td>N OMEGA-P™-OMEGA-N™ XL Sheath</td>
<td>0.5</td>
<td>NMTXL-M050*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>0.75</td>
<td>NMTXL-M075*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>1.0</td>
<td>NMTXL-M100*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td>NMTXL-M150*[^1]<em>[^2]</em>[^3]*</td>
</tr>
<tr>
<td></td>
<td>3.0</td>
<td>NMTXL-M300*[^1]<em>[^2]</em>[^3]*</td>
</tr>
</tbody>
</table>

**Note:** Probes with 0.75 mm diameter and larger are supplied with molded transition joints. Smaller-sized probes are supplied with stainless steel transition joints. Stripped leads standard.

- Specify junction type: “**G**” (Grounded), “**E**” (Exposed) or “**U**” (Ungrounded)
- Specify length in millimeters: “**150**” mm, “**300**” mm, “**450**” mm, or “**600**” mm.

For a male straight M8 plug add “**M8-S-M**” to the model number, for a male straight M12 plug add “**M12-S-M**” to the model number, for a male right-angled M8 plug add “**M8-R-M**” to the model number, for a male right-angled M12 plug add “**M12-R-M**” to the model number and additional cost to the price.

See accessory charts on page 7 for ordering the compatible mating connectors.

**Ordering Example for Quick-Connect Probes:** KQXL-M30U-300, molded quick connect probe, Type K (CHROMEGAM™-ALOMEGA), SUPER OMEGAACLAD XL sheath, 3 mm OD, ungrounded junction, 300 mm length.
Super OMEGA CLAD™ XL Probes
Available in Most Thermocouple Probe Styles and Designs with Standard Dimensions

- Standard- and Miniature-Size Quick-Connect and Molded Transition Junction Probes
- Rugged Industrial Head Styles, Replacement Probes, and Utility Handle Probes
- All Standard Lengths Available—6, 12, 18, and 24"

Exposed Ungrounded

Ordering Example: KHXL-14G-RSC-12

Standard Dimension—Industrial Head Probe Assemblies and Replacement Probes

**To Order**

<table>
<thead>
<tr>
<th>ANSI Color Code/Alloy</th>
<th>Sheath Dia. (inches)</th>
<th>Model Number ANSI Color Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHROMEGA™-ALOMEGA™</td>
<td>(\frac{3}{16})</td>
<td>NB(<em>)-CALX-116[[-</em>]]</td>
</tr>
<tr>
<td></td>
<td>(\frac{1}{8})</td>
<td>NB(<em>)-CALX-18[[-</em>]]</td>
</tr>
<tr>
<td></td>
<td>(\frac{5}{32})</td>
<td>NB(<em>)-CALX-3L6[[-</em>]]</td>
</tr>
<tr>
<td></td>
<td>(\frac{3}{32})</td>
<td>NB(<em>)-CALX-14[[-</em>]]</td>
</tr>
<tr>
<td></td>
<td>(\frac{7}{32})</td>
<td>NB(<em>)-CALX-516[[-</em>]]</td>
</tr>
<tr>
<td></td>
<td>(\frac{1}{8})</td>
<td>NB(<em>)-CALX-38[[-</em>]]</td>
</tr>
<tr>
<td>N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OMEGA-P™-OMEGA-N™</td>
<td>(\frac{3}{16})</td>
<td>NB(<em>)-NNXL-116[[-</em>]]</td>
</tr>
<tr>
<td></td>
<td>(\frac{1}{8})</td>
<td>NB(<em>)-NNXL-18[[-</em>]]</td>
</tr>
<tr>
<td></td>
<td>(\frac{5}{32})</td>
<td>NB(<em>)-NNXL-316[[-</em>]]</td>
</tr>
<tr>
<td></td>
<td>(\frac{3}{32})</td>
<td>NB(<em>)-NNXL-14[[-</em>]]</td>
</tr>
<tr>
<td></td>
<td>(\frac{7}{32})</td>
<td>NB(<em>)-NNXL-516[[-</em>]]</td>
</tr>
<tr>
<td></td>
<td>(\frac{1}{8})</td>
<td>NB(<em>)-NNXL-38[[-</em>]]</td>
</tr>
</tbody>
</table>

(*) Specify head style: 1 (NB1), 2 (NB2), 3 (NB3), 4 (NB4), 5 (NB5), 6 (NB6), 7 (NB7), 8 (NB8), 9 (NB9), 10 (NB10), 11 (NB11), 12 (NB12). Note: NB4, 8, 10, 11 not offered with \(\frac{5}{32}\) diameter sheath.

Ordering Example: NB1-CAXL-14G-12, industrial head probe, NB1-style head, Type K (CHROMEGA-ALOMEGA) SUPER OMEGA CLAD XL sheath, \(\frac{3}{16}\) OD, grounded junction, 12" length.

To order a replacement probe for a head assembly, add "RP" to the part number and subtract from the price.

Ordering Example: NB1-CAXL-14G-12-RP, industrial head replacement probe, for NB1-style head assembly, Type K (CHROMEGA-ALOMEGA), SUPER OMEGA CLAD XL sheath, \(\frac{3}{16}\) OD, grounded junction, 12" length.

Standard Dimension—Utility Handle Probes

**To Order**

<table>
<thead>
<tr>
<th>ANSI Color Code/Alloy</th>
<th>Sheath Dia. (inches)</th>
<th>Model Number ANSI Color Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHROMEGA™-ALOMEGA™</td>
<td>(\frac{3}{16})</td>
<td>KHXL-116[[-<em>]-RSC[[-</em>]]]</td>
</tr>
<tr>
<td></td>
<td>(\frac{1}{8})</td>
<td>KHXL-18[[-<em>]-RSC[[-</em>]]]</td>
</tr>
<tr>
<td></td>
<td>(\frac{5}{32})</td>
<td>KHXL-316[[-<em>]-RSC[[-</em>]]]</td>
</tr>
<tr>
<td></td>
<td>(\frac{3}{32})</td>
<td>tKHXL-516[[-<em>]-RSC[[-</em>]]]</td>
</tr>
<tr>
<td></td>
<td>(\frac{7}{32})</td>
<td>tKHXL-38[[-<em>]-RSC[[-</em>]]]</td>
</tr>
<tr>
<td>N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OMEGA-P™-OMEGA-N™</td>
<td>(\frac{3}{16})</td>
<td>NHXL-116[[-<em>]-RSC[[-</em>]]]</td>
</tr>
<tr>
<td></td>
<td>(\frac{1}{8})</td>
<td>NHXL-18[[-<em>]-RSC[[-</em>]]]</td>
</tr>
<tr>
<td></td>
<td>(\frac{5}{32})</td>
<td>NHXL-316[[-<em>]-RSC[[-</em>]]]</td>
</tr>
<tr>
<td></td>
<td>(\frac{3}{32})</td>
<td>tNHXL-516[[-<em>]-RSC[[-</em>]]]</td>
</tr>
<tr>
<td></td>
<td>(\frac{7}{32})</td>
<td>tNHXL-38[[-<em>]-RSC[[-</em>]]]</td>
</tr>
</tbody>
</table>

[†] Specify head type: "G" (Grounded), "E" (Exposed), "U" (Ungrounded) or "S" (Surface).

Ordering Example: KHXL-14G-RSC-12, utility handle probe, Type K (CHROMEGA-ALOMEGA), SUPER OMEGA CLAD XL sheath, \(\frac{3}{16}\) OD, grounded junction, 12" length, supplied with a miniature connector (SMP) termination.

Please Note: These diameters will be manually assembled, not molded.
Super OMEGAACLAD™ XL Probes

Available in Most Thermocouple Probe Styles and Designs with Metric Dimensions

- Standard- and Miniature-Size Quick-Connect and Molded Transition Junction Probes
- Rugged Industrial Head Styles, Replacement Probes, and Utility Handle Probes
- All Standard Lengths Available—150, 300, 450 and 600 mm

**Metric Dimension—Industrial Head Probe Assemblies and Replacement Probes**

<table>
<thead>
<tr>
<th>ANSI Color Code/Alloy</th>
<th>Sheath Dia. (mm)</th>
<th>Model Number ANSI Color Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>K</strong> CHROMEGA™-ALOMEGA™ XL Sheath</td>
<td>1.5</td>
<td>NB(*)-CAXL-M15[**]</td>
</tr>
<tr>
<td></td>
<td>3.0</td>
<td>NB(*)-CAXL-M30[**]</td>
</tr>
<tr>
<td></td>
<td>4.5</td>
<td>NB(*)-CAXL-M45[**]</td>
</tr>
<tr>
<td></td>
<td>6.0</td>
<td>NB(*)-CAXL-M60[**]</td>
</tr>
<tr>
<td></td>
<td>8.0</td>
<td>NB(*)-CAXL-M80[**]</td>
</tr>
<tr>
<td></td>
<td>9.5</td>
<td>NB(*)-CAXL-M95[**]</td>
</tr>
<tr>
<td><strong>N</strong> OMEGA-P™-OMEGA-N™ XL Sheath</td>
<td>1.5</td>
<td>NB(*)-NNXL-M15[**]</td>
</tr>
<tr>
<td></td>
<td>3.0</td>
<td>NB(*)-NNXL-M30[**]</td>
</tr>
<tr>
<td></td>
<td>4.5</td>
<td>NB(*)-NNXL-M45[**]</td>
</tr>
<tr>
<td></td>
<td>6.0</td>
<td>NB(*)-NNXL-M60[**]</td>
</tr>
<tr>
<td></td>
<td>8.0</td>
<td>NB(*)-NNXL-M80[**]</td>
</tr>
<tr>
<td></td>
<td>9.5</td>
<td>NB(*)-NNXL-M95[**]</td>
</tr>
</tbody>
</table>

- Specify head style: 1 (NB1), 2 (NB2), 3 (NB3), 4 (NB4), 5 (NB5), 6 (NB6), 7 (NB7), 8 (NB8), 9 (NB9), 10 (NB10), 11 (NB11), 12 (NB12). Note: NB4, 8, 10, 11 not offered with 9.5 mm diameter probes.
- Specify junction type: G (Grounded), E (Exposed), U (Ungrounded) or S (Surface).

**Ordering Example:** NB1-CAXL-M60G-300 industrial head probe, NB1-style head, Type K (CHROMEGA-ALOMEGA) SUPER OMEGAACLAD XL sheath, 6 mm OD, grounded junction, 300 mm length.

To order a replacement probe for a head assembly, add “RP” to the model number and subtract from the price above.

**Ordering Example:** NB1-CAXL-M60G-300-RP, industrial head replacement probe, for NB1-style head assembly, Type K (CHROMEGA-ALOMEGA), SUPER OMEGAACLAD XL sheath, 6 mm OD, grounded junction, 300 mm length.

---

**Metric Dimension—Utility Handle Probes**

<table>
<thead>
<tr>
<th>ANSI Color Code/Alloy</th>
<th>Sheath Dia. (mm)</th>
<th>Model Number ANSI Color Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>K</strong> CHROMEGA™-ALOMEGA™ XL Sheath</td>
<td>1.5</td>
<td>KHXL-M15[<strong>]-RSC[</strong>]</td>
</tr>
<tr>
<td></td>
<td>3.0</td>
<td>KHXL-M30[<strong>]-RSC[</strong>]</td>
</tr>
<tr>
<td></td>
<td>4.5</td>
<td>KHXL-M45[<strong>]-RSC[</strong>]</td>
</tr>
<tr>
<td></td>
<td>6.0</td>
<td>KHXL-M60[<strong>]-RSC[</strong>]</td>
</tr>
<tr>
<td></td>
<td>8.0</td>
<td>KHXL-M80[<strong>]-RSC[</strong>]</td>
</tr>
<tr>
<td></td>
<td>9.5</td>
<td>KHXL-M95[<strong>]-RSC[</strong>]</td>
</tr>
<tr>
<td><strong>N</strong> OMEGA-P™-OMEGA-N™ XL Sheath</td>
<td>1.5</td>
<td>NHXL-M15[<strong>]-RSC[</strong>]</td>
</tr>
<tr>
<td></td>
<td>3.0</td>
<td>NHXL-M30[<strong>]-RSC[</strong>]</td>
</tr>
<tr>
<td></td>
<td>4.5</td>
<td>NHXL-M45[<strong>]-RSC[</strong>]</td>
</tr>
<tr>
<td></td>
<td>6.0</td>
<td>NHXL-M60[<strong>]-RSC[</strong>]</td>
</tr>
<tr>
<td></td>
<td>8.0</td>
<td>NHXL-M80[<strong>]-RSC[</strong>]</td>
</tr>
<tr>
<td></td>
<td>9.5</td>
<td>NHXL-M95[<strong>]-RSC[</strong>]</td>
</tr>
</tbody>
</table>

- Specify junction type: G (Grounded), E (Exposed), U (Ungrounded) or S (Surface).
- Specify length in millimeters: 150 mm, 300 mm, 450 mm or 600 mm.

**Ordering Example:** KHXL-M60G-RSC-300, utility handle probe, Type K (CHROMEGA-ALOMEGA), SUPER OMEGAACLAD™ XL sheath, 6 mm OD, grounded junction, 300 mm length, supplied with a miniature connector (SMP) termination.
### Standard KMQXL/NMQXL and KQXL/NQXL Accessories

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CHROMEGA™ ALOMEGA™</td>
<td>KQXL-116[*] [**]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XL Sheath</td>
<td>KQXL-18[*] [**]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>KQXL-316[*] [**]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>KQXL-14[*] [**]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OMEGA-P™ OMEGA-N™ XL Sheath</td>
<td>NQXL-116[*] [**]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NQXL-18[*] [**]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NQXL-316[*] [**]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NQXL-14[*] [**]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**All Accessories Sold Separately**

### Metric KMQXL/NMQXL and KQXL/NQXL Accessories

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CHROMEGA™ ALOMEGA™</td>
<td>KQXL-M15[*] [**]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XL Sheath</td>
<td>KQXL-M30[*] [**]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>KQXL-M45[*] [**]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>KQXL-M60[*] [**]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OMEGA-P™ OMEGA-N™ XL Sheath</td>
<td>NQXL-M15[*] [**]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NQXL-M30[*] [**]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NQXL-M45[*] [**]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NQXL-M60[*] [**]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**All accessories sold separately.**

[*] Specify junction type: “G” (Grounded), “E” (Exposed) or “U” (Ungrounded).

[**] Specify length in inches: “6”, “12”, “18” or “24”.

[***] Calibration