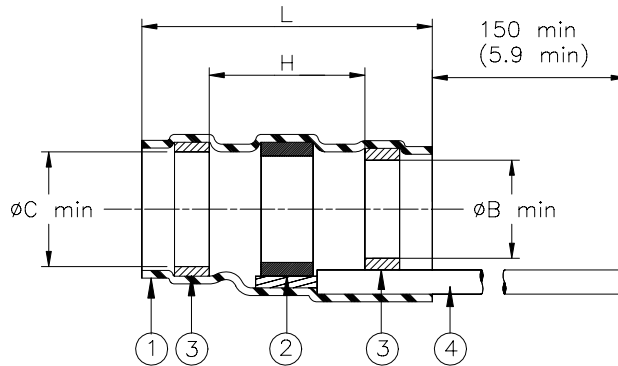


## SPECIFICATION CONTROL DRAWING



| Product Revision |   |            | Product Dimensions  |                 |                 |                 | Cable Dimensions |                 |                 |
|------------------|---|------------|---------------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|
| Product Name     |   | Ident Code | L±1.75<br>(L±0.075) | øB<br>min       | øC<br>min       | H<br>min        | øE<br>max        | øF<br>min       | øD<br>max       |
| SO96-1-55-22-95  | A | SO961R     | 16.5<br>(0.650)     | 1.90<br>(0.075) | 2.67<br>(0.105) | 8.20<br>(0.322) | 2.67<br>(0.105)  | 0.90<br>(0.035) | 1.90<br>(0.075) |
| SO96-2-55-22-95  | A | SO962R     | 16.5<br>(0.650)     | 2.67<br>(0.105) | 3.68<br>(0.145) | 8.20<br>(0.322) | 3.68<br>(0.145)  | 1.40<br>(0.055) | 2.67<br>(0.105) |
| SO96-3-55-22-95  | A | SO963R     | 16.5<br>(0.650)     | 4.32<br>(0.170) | 5.08<br>(0.200) | 8.20<br>(0.322) | 5.08<br>(0.200)  | 2.15<br>(0.085) | 4.32<br>(0.170) |
| SO96-4-55-22-95  | A | SO964R     | 19.1<br>(0.750)     | 5.97<br>(0.235) | 6.48<br>(0.255) | 8.20<br>(0.322) | 6.48<br>(0.255)  | 3.30<br>(0.130) | 5.97<br>(0.235) |
| SO96-5-55-22-95  | A | SO965R     | 19.1<br>(0.750)     | 6.98<br>(0.275) | 7.62<br>(0.300) | 8.20<br>(0.322) | 7.62<br>(0.300)  | 4.30<br>(0.170) | 6.98<br>(0.275) |

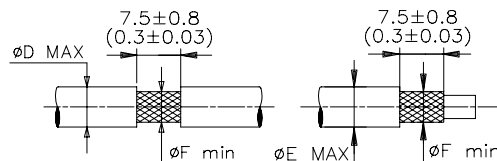
### MATERIALS

- INSULATION SLEEVE: Heat-shrinkable, transparent blue, radiation cross-linked modified polyvinylidene fluoride.
- SOLDER PREFORM WITH FLUX AND THERMAL INDICATOR:  
SOLDER: TYPE Sn96 per ANSI-J-STD-006.  
FLUX: TYPE ROM1 per ANSI-J-STD-004.  
THERMAL INDICATOR: Color change orange to colorless.
- MELTABLE RINGS: Environment resistant thermoplastic. Color: blue.
- PRE-INSTALLED LEAD: Raychem 55A0813-22-95 in accordance with MIL-W-22759/41-22-95 AWG22 stranded nickel plated copper. Color: white with green stripe.

### APPLICATION

- These parts are designed to an environment resistant shield termination on cables, rated for 150°C minimum, meeting the dimensional criteria listed, having nickel-plated shields and insulations compatible with the insert material.  
See MIL-S-83519/1 or consult Raychem.
- Temperature range: -55°C to +175°C.
- Parts shall be marked with identification code per table.
- Install using Raychem-approved convection or infra-red heating tools in accordance with Raychem Process Standard RCPS-100-70. Infrared tools are not recommended for use with black jackets.

For best results, prepare the wire as shown:



\* A trademark of Raychem Corporation.

|                                                                                                                                                  |                                                                  |                                                                                                                                                      |                                                                                                                                             |                                   |                                     |                                     |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|--|
| <div>Raychem Interconnect</div> <div>a division of tyco ELECTRONICS</div> <div>300 Constitution Drive</div> <div>Menlo Park, CA 94025, USA</div> |                                                                  | <div>THERMOFIT</div> <div>DEVICES</div>                                                                                                              | <div>TITLE:</div> <div>SOLDERSLEEVE* DEVICE SHIELD</div> <div>TERMINATION WITH LEADS, HIGH</div> <div>TEMPERATURE IMMERSION RESISTANT</div> |                                   |                                     |                                     |  |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS.<br>INCHES DIMENSIONS ARE BETWEEN BRACKETS.                                             |                                                                  |                                                                                                                                                      | DOCUMENT NO.: SO96-X-55-22-95                                                                                                               |                                   |                                     |                                     |  |
| <div>TOLERANCES:</div> <div>0.00 N/A</div> <div>0.0 N/A</div> <div>0 N/A</div>                                                                   | <div>ANGLES: N/A</div> <div>ROUGHNESS IN</div> <div>MICRON</div> | <div>Raychem reserves the right to amend this drawing at any time. Users should evaluate the suitability of the product for their application.</div> | <div>DCR NUMBER:</div> <div>D000002</div>                                                                                                   |                                   | <div>REPLACES:</div> <div>N/A</div> |                                     |  |
| <div>DRAWN BY:</div> <div>M. FORONDA</div>                                                                                                       | <div>DATE:</div> <div>06-Jan-00</div>                            | <div>PROD. REV.:</div> <div>SEE TABLE</div>                                                                                                          | <div>DOC ISSUE:</div> <div>0</div>                                                                                                          | <div>SCALE:</div> <div>None</div> | <div>SIZE:</div> <div>A</div>       | <div>SHEET:</div> <div>1 of 1</div> |  |

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