

# SPECIFICATION CONTROL DRAWING



| Product Name |              |              |              |              |              | Product Dimensions |                 |                 |                 | Cable Dimensions |                 |                 |                 |                   |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|-------------------|
| Product Rev. | Product Rev. | Product Rev. | Product Rev. | Product Rev. | Product Rev. | A±1.75<br>(A±0.07) | øB<br>min       | øC<br>min       | H<br>min        | øE<br>max        | øF<br>min       | øG<br>min       | øD<br>max       | J±0.5<br>(J±0.02) |
| 20 AWG       | 22 AWG       | 24 AWG       | 26 AWG       | 26 AWG       | 26 AWG       |                    |                 |                 |                 |                  |                 |                 |                 |                   |
| S02-01-R     | D            | S02-06-R     | D            | S02-11-R     | D            | 16.5<br>(0.650)    | 1.90<br>(0.075) | 2.65<br>(0.105) | 8.25<br>(0.325) | 2.65<br>(0.105)  | 0.90<br>(0.035) | 0.50<br>(0.020) | 1.90<br>(0.075) | 7.5<br>(0.295)    |
| S02-02-R     | D            | S02-07-R     | D            | S02-12-R     | D            | 16.5<br>(0.650)    | 2.65<br>(0.105) | 3.68<br>(0.145) | 8.25<br>(0.325) | 3.68<br>(0.145)  | 1.40<br>(0.055) | 0.75<br>(0.030) | 2.65<br>(0.105) | 7.5<br>(0.295)    |
| S02-03-R     | D            | S02-08-R     | D            | S02-13-R     | D            | 16.5<br>(0.650)    | 4.30<br>(0.170) | 5.08<br>(0.200) | 8.25<br>(0.325) | 5.08<br>(0.200)  | 2.15<br>(0.085) | 1.25<br>(0.050) | 4.30<br>(0.170) | 7.5<br>(0.295)    |
| S02-04-R     | D            | S02-09-R     | D            | S02-14-R     | D            | 19.1<br>(0.750)    | 5.95<br>(0.235) | 6.45<br>(0.255) | 8.25<br>(0.325) | 6.45<br>(0.255)  | 3.30<br>(0.130) | 1.80<br>(0.070) | 5.95<br>(0.235) | 7.5<br>(0.295)    |
| S02-05-R     | D            | S02-10-R     | D            | S02-15-R     | D            | 19.1<br>(0.750)    | 7.00<br>(0.275) | 7.60<br>(0.300) | 8.25<br>(0.325) | 7.60<br>(0.300)  | 4.30<br>(0.170) | 2.50<br>(0.100) | 7.00<br>(0.275) | 7.5<br>(0.295)    |

### MATERIALS

- INSULATION SLEEVE: Heat-shrinkable, transparent blue, radiation cross-linked polyvinylidene fluoride.
- SOLDER PREFORM WITH FLUX AND THERMAL INDICATOR:  
 SOLDER: TYPE Sn63 per ANSI-J-STD-006.  
 FLUX: TYPE ROL1 per ANSI-J-STD-004.  
 THERMAL INDICATOR: Color change: violet to colorless.
- MELTABLE RING: Environment resistant thermoplastic. Color:blue.
- GROUND LEAD: MIL-W-22759/32-AA-90 lead gauge per table.


### APPLICATION

- These parts are designed to provide an environment resistant shield termination on cables meeting the following criteria:  
 Dimensions: Per table. Jacket rating: 125°C.  
 Shield plating: Tin or silver. Jacket material: See M83519/2 or consult Raychem.
- Parts are qualified to M83519/2.
- For assembly information, refer to Raychem document RCPS-100-70.

For best results, prepare the cable as shown:



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|   |  |   |                        |   |                 |            |                  |
|---|--|---|------------------------|---|-----------------|------------|------------------|
|  TE Connectivity<br>300 Constitutional Drive<br>Menlo Park, CA 94025 USA |  | <b>RAYCHEM</b>  |                        | TITLE:<br><b>SOLDERSLEEVE* SHIELD TERMINATOR,<br/>                 IMMERSION RESISTANT, MIL-S-83519/2</b> |                 |            |                  |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS.<br>INCHES DIMENSIONS ARE BETWEEN BRACKETS.  |  |   |                        | DOCUMENT NO: <b>S02-XX-R</b>  |                 |            |                  |
| TOLERANCES:<br>0.00 N/A<br>0.0 N/A<br>0 N/A   | ANGLES:<br>N/A<br><br>ROUGHNESS<br>IN MICRON | TE Connectivity reserves the right to amend this drawing at any time. Users should evaluate the suitability of the product for their application. |                        | DATE:<br>16-Apr-11  | DOC ISSUE:<br>4 |            |                  |
| DRAWN BY:<br>M. FORONDA   | CAGE CODE:<br>06090                          | REPLACES:<br>D970095  | DCR NUMBER:<br>D981342 | PROD. REV.:<br>SEE TABLE  | SCALE:<br>None  | SIZE:<br>A | SHEET:<br>1 of 1 |

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