

## SPECIFICATION CONTROL DRAWING



| Product Name |   |              |   |              |   |              |   | Product Dimensions |                 |                 |                 | Cable Dimensions |                 |                 |                 |                |
|--------------|---|--------------|---|--------------|---|--------------|---|--------------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|----------------|
| Product Rev. |   | Product Rev. |   | Product Rev. |   | Product Rev. |   | A±1.75             | øB              | øC              | H               | øE               | øF              | øG              | øD              | J±0.5          |
| 20 AWG       |   | 22 AWG       |   | 24 AWG       |   | 26 AWG       |   | (A±0.07)           | min             | min             | min             | max              | min             | min             | max             | (J±0.02)       |
| S02-01-R     | D | S02-06-R     | D | S02-11-R     | D | S02-16-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 | S02-17-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 | S02-18-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 | S02-19-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 | S02-20-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 |                                                                                                                                                            | RAYCHEM                |                          | TITLE:<br>SOLDERSLEEVE* SHIELD TERMINATOR,<br>IMMERSION RESISTANT, MIL-S-83519/2 |            |                     |  |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS.<br>INCHES DIMENSIONS ARE BETWEEN BRACKETS. |  |                                                                         |                                                                                                                                                            |                        |                          | DOCUMENT NO: S02-XX-R                                                            |            |                     |  |
| 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<br>amend this drawing at any time. Users<br>should evaluate the suitability of the<br>product for their application. |                        |                          | DATE:<br><br>16-Apr-11                                                           |            | DOC ISSUE:<br><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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