

| PART NUMBER  | LENGTH    |       | ITEM ①<br>UMC RIGHT ANGLE PLUG CONNECTOR, MEDIUM PROFILE                                                     | ITEM ②<br>CABLE                                                                                                                                                    | DRAWING NO.                                                                                                                                                                                                                     |
|--------------|-----------|-------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | INCH      | mm    |                                                                                                              |                                                                                                                                                                    | B - 415-0085-001/999                                                                                                                                                                                                            |
| 415-0085-050 | 1.97±.16  | 50±4  | BODY - COPPER ALLOY- GOLD PLATED<br>CONTACT - COPPER ALLOY - GOLD PLATED<br>INSULATOR - PBT - WHITE, UL94V-0 | SHIELD - TIN PLATED ANNEALED COPPER WIRE<br>DIELECTRIC - FEP<br>CENTER CONDUCTOR - SILVER PLATED ANNEALED COPPER WIRE, AWG#36 (7/.002)<br><br>JACKET - FEP - BLACK | 0 REVISIONS                                                                                                                                                                                                                     |
| 415-0085-100 | 3.94±.16  | 100±4 |                                                                                                              |                                                                                                                                                                    | ENGINEERING RELEASE                                                                                                                                                                                                             |
| 415-0085-150 | 5.91±.16  | 150±4 |                                                                                                              |                                                                                                                                                                    | 110-20-06PATSDRJPD12-20-06ECN 50728                                                                                                                                                                                             |
| 415-0085-200 | 7.87±.16  | 200±4 |                                                                                                              |                                                                                                                                                                    | INSULATOR-LCP BLACK WAS WHITE<br>*****<br>* REVISION NUMBER FOLLOWED BY AN ALPHA *<br>* CHARACTER INDICATES DRAWING CLARIFI- *<br>* CATION OR PART NUMBER ADDITION ONLY. *<br>*****                                             |
| 415-0085-250 | 9.84±.31  | 250±8 |                                                                                                              |                                                                                                                                                                    | 1a2-23-07PATSDRJMJCN4-23-07ECN 50950                                                                                                                                                                                            |
| 415-0085-300 | 11.81±.31 | 300±8 |                                                                                                              |                                                                                                                                                                    | ADD MEDIUM RPROFILE TO ITEM 1<br>CHANGE BODY MATERIAL TO COPPER ALLOY<br>CHANGE CONTACT MATERIAL TO COPPER ALLOY<br>CHANGE INSULATOR COLOR TO WHITE<br>CHANGE INSULATOR MATERIAL TO PBT<br>CHANGE SHIELD MATERIAL TO TIN PLATED |
| 415-0085-500 | 19.69±.31 | 500±8 |                                                                                                              |                                                                                                                                                                    | 1b2-7-11MSDJDJBSMS2-7-11ECO 52912                                                                                                                                                                                               |

Technical drawing of a UMC mating cable plug. The drawing shows a side view of the plug with a central conductor and an outer shield. Dimensions include a length dimension labeled 'LENGTH' and a contact height dimension of .083 (2.1mm). Callouts 1, 2, and 1 point to specific features of the plug and cable assembly.

NOTES:

1. SPECIFICATIONS:

IMPEDANCE: 50 OHMS  
FREQUENCY RANGE: 0-6 GHz  
VSWR: 1.30 MAX AT 0-3 GHz  
1.50 MAX AT 3-6 GHz

WITHSTANDING VOLTAGE: 200 V AC  
INSULATION RESISTANCE: 500 MEGOHM MIN  
CONTACT RESISTANCE:  
CENTER CONTACT - 20 MILLI-OHMS MAX  
OUTER CONDUCTOR - 20 MILLI-OHMS MAX

MECHANICAL:

COMPATIBILITY: MATES WITH U.FL SERIES  
HOLDING FORCE (MIN): 0.15 N (FEMALE CONTACT)  
DURABILITY: 30 CYCLES

ENVIRONMENTAL:

TEMPERATURE RANGE: -40° C TO +90° C

CUSTOMER DRAWING

THIS DRAWING TO BE INTERPRETED  
PER ASME Y 14.5M - 1994

"μSTATION"

COMPANY CONFIDENTIAL

|                                      |    |              |            |                                                       |                                                                                          |                                     |
|--------------------------------------|----|--------------|------------|-------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------|
| TOLERANCE UNLESS OTHERWISE SPECIFIED |    | DRAWN BY     | DATE       | <b>cinch</b><br>CONNECTIVITY SOLUTIONS<br>a bel group | Cinch Connectivity Solutions<br>P.O. Box 1732<br>Waseca, MN 56093<br>1-800-247-8256      |                                     |
| DECIMALS                             | mm | CHECKED BY   | DATE       |                                                       | TITLE<br>UMC MATING CABLE PLUG<br>.098 (2.5mm) MATING HEIGHT<br>.032 (0.81mm) CABLE O.D. |                                     |
| .XX                                  |    | RJB          | 12-13-06   |                                                       |                                                                                          |                                     |
| .XXX ±.004                           |    | APPROVED BY  | DATE       |                                                       |                                                                                          |                                     |
| MATL                                 |    | PDW          | 12-19-06   | SHEET<br>2 OF 2                                       |                                                                                          | DRAWING NO.<br>B - 415-0085-001/999 |
| FINISH                               |    | RELEASE DATE | 12-20-06   |                                                       |                                                                                          |                                     |
|                                      |    | U/M INCH     | SCALE 10:1 |                                                       |                                                                                          |                                     |