

PRODUCT NUMBER  
SEE NOTE 3

10054999-XXXXXXULF

"DIM L" (NOTE 2, 3 AND 9)

VIEW A

SHT. 2

(14.5 MAX.)  
2X

VIEW A

SHT. 2

LABEL  
NOTE 5

CABLE  
NOTE 3

END P1  
DENSI-SHIELD I/O  
CONNECTOR  
NOTE 11

50mm  
NOTE 4

END P2  
DENSI-SHIELD I/O  
CONNECTOR  
NOTE 11

2X (7.50 MAX)

POS. A1

POS. A4

POS. E1

POS. E4

2X 12.2 MAX.

2X (26)

(2X 17.8 MAX.)  
LOCKING SCREW VERSION

2X 8.45  
MAX

2X (26)

(2X 26.5 MAX)  
THUMBSCREW VERSION

LOCKING SCREW VERSION  
SEE NOTE 3

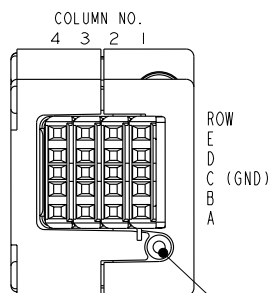
THUMBSCREW VERSION  
SEE NOTE 3

| rev | ecn no   | dr  | date       |
|-----|----------|-----|------------|
| L   | V09-0053 | DAI | 2009-03-24 |
| -   | -        | -   | -          |
| F   | M07-0501 | AGS | 26/11/07   |
| G   | M08-0090 | AGS | 03/27/08   |
| H   | M08-0164 | AGS | 05/06/08   |
| J   | M08-0203 | AGS | 05/09/08   |
| K   | M08-0320 | AGS | 11/05/08   |

|                                                                                       |           |                         |                                                                                                 |        |                 |       |                                                                                       |          |                                                                                       |              |   |
|---------------------------------------------------------------------------------------|-----------|-------------------------|-------------------------------------------------------------------------------------------------|--------|-----------------|-------|---------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------|--------------|---|
| www.fciconnect.com                                                                    |           |                         | surface -  |        | tolerance std - |       |  |          |  |              |   |
|                                                                                       |           |                         | TOLERANCES UNLESS OTHERWISE SPECIFIED                                                           |        |                 |       |                                                                                       |          |                                                                                       |              |   |
| Dr                                                                                    | D. INGRAM | 2009-03-24              | ANGULAR                                                                                         | LINEAR |                 |       | size                                                                                  | A4       | Scale                                                                                 |              |   |
| Eng                                                                                   | J. DUARTE | 2009-03-24              |                                                                                                 |        | 0.XX            | ±0.10 |                                                                                       |          |                                                                                       | 1:2          |   |
| Chr                                                                                   | J. DUARTE | 2009-03-24              |                                                                                                 |        | 0°              | ±2°   |                                                                                       |          | ECN                                                                                   | V09-0053     |   |
| Appr                                                                                  | J. DUARTE | 2009-03-24              | Product family                                                                                  |        |                 |       | C&A                                                                                   | Spec ref |                                                                                       |              |   |
|  |           | title                   |                                                                                                 |        |                 |       | CABLE ASSEMBLY                                                                        |          |                                                                                       | Rev          | L |
|                                                                                       |           | DENSI-SHIELD I/O 8 PAIR |                                                                                                 |        |                 |       | 10054999                                                                              |          |                                                                                       |              |   |
|                                                                                       |           | catalog no              |                                                                                                 |        |                 |       | CUSTOMER                                                                              |          |                                                                                       | sheet 1 of 4 |   |
|                                                                                       |           |                         |                                                                                                 |        |                 |       |                                                                                       |          |                                                                                       |              |   |

PRODUCT NUMBER  
SEE NOTE 3

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VIEW A  
SCALE 2:1  
VIEWED FROM  
MATING SIDE

LOCKING SCREW  
NOTE 14

## PIN OUT/WIRING LIST SEE NOTE 6

### END P1

### END P2

| PIN NUMBER | WIRE ID | PIN NUMBER | WIRE ID |
|------------|---------|------------|---------|
| C1-C4      | GROUND  | C1-C4      | GROUND  |
| A1         | TN1     | E1         | RN1     |
| B1         | TP1     | D1         | RP1     |
| D1         | RP2     | B1         | TP2     |
| E1         | RN2     | A1         | TN2     |
| A2         | TN6     | E2         | RN6     |
| B2         | TP6     | D2         | RP6     |
| D2         | RP7     | B2         | TP7     |
| E2         | RN7     | A2         | TN7     |
| A3         | TN8     | E3         | RN8     |
| B3         | TP8     | D3         | RP8     |
| D3         | RP3     | B3         | TP3     |
| E3         | RN3     | A3         | TN3     |
| A4         | TN5     | E4         | RN5     |
| B4         | TP5     | D4         | RP5     |
| D4         | RP4     | B4         | TP4     |
| E4         | RN4     | A4         | TN4     |

DWx = DRAIN WIRE x  
RPx = RECIEVER PAIR x, POSITIVE POLE  
RNx = RECIEVER PAIR x, NEGATIVE POLE  
TPx = TRANSMITTER PAIR x, POSITIVE POLE  
TNx = TRANSMITTER PAIR, NEGATIVE POLE



title  
CABLE ASSEMBLY  
DENS1-SHIELD I/O 8 PAIR  
catalog no

dwg no  
10054999

Rev.  
L

CUSTOMER sheet 2 of 4

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SEE NOTE 3

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NOTES:

1. MATES WITH FCI PART NUMBERS 10044471 SERIES.

- (2.) UNLESS OTHERWISE SPECIFIED ASSEMBLED LENGTH TOLERANCE =  
= 1 METER:  $\pm 15.0\text{mm}$   
> 1 METER TO 10 METER:  $\pm 2\%$  OF "DIM L"  
> 10 METER:  $+0/-4\%$  OF "DIM L"

- (3.) PART NUMBER DESCRIPTION:  
10054999 - X XX XX X U LF

WIRE GAGE

N: 26 AWG

P: 28 AWG (NOT TOOLED)

R: 30 AWG

LF: LEAD FREE (NOTE 10)

U: UN-EQUALIZED

HARDWARE TYPE

A: HIGH SPEED VERSION + THUMBSCREWS

B: HIGH SPEED VERSION + TORX SCREW T-5

D: STANDARD VERSION + THUMBSCREWS

E: STANDARD VERSION + TORX SCREW T-5

LENGTH "DIM L" NOTE 9

XXXX: XX METERS, XX CENTIMETERS

EXAMPLES OF LENGTH GIVEN BELOW:

0046 = 00 METERS 46 CENTIMETERS

0500 = 05 METERS 00 CENTIMETERS

EXAMPLE: 10054999-N0046BULF = 26 AWG, 00 METER, 46 CENTIMETERS, HIGH SPEED TORX SCREW T-5, UN-EQUALIZED AND LEAD FREE

- (4.) UNLESS OTHERWISE SPECIFIED LABEL POSITION SHALL BE APPROXIMATELY  $50\text{mm} \pm 15\text{mm}$  FROM REAR OF CONNECTOR.

- (5.) UNLESS OTHERWISE SPECIFIED STANDARD LABEL SHALL BE 10081646-002.

LABEL DETAILS;

-MANUFACTURER CODE OR NAME

-CUSTOMER P/N OR FCI P/N

-REVISION

-DATE CODE (WW/YY FORMAT) - SERIAL NUMBER

-COUNTRY ORIGIN

FONT SHALL BE CLEARLY VISABLE AND BLACK IN COLOR.



title CABLE ASSEMBLY  
DENS1-SHIELD I/O 8 PAIR  
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NOTES CONTINUED:

6. ALL CABLE ASSEMBLIES SHALL BE TESTED 100% FOR CONTINUITY AS DEFINED IN WIRING LIST.
7. UNLESS OTHERWISE SPECIFIED ALL CABLE ASSEMBLIES SHALL BE 100% HI-POT TESTED PER PRODUCT SPECIFICATION: GS-12-314.
8. OTHER TESTING PERFORMED AS REQUIRED BY PRODUCT SPECIFICATION: GS-12-314.
9. THIS DIMENSION IS A FINISHED PRODUCT LENGTH.
10. LEAD FREE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
11. CONNECTOR ASSEMBLIES SHOWN ARE FOR REFERENCE ONLY AND MAY NOT SHOW ALL PART DETAIL. REFERENCE CONNECTOR ASSEMBLY DRAWINGS FOR COMPLETE DETAILS.
12. PACKAGING PER GLOBAL STANDARD GS-14-1272.
13. MATERIALS:  
COVERS: ZINC ALLOY, Cu-Ni-Sn PLATED.  
SHEET METAL COVER: COPPER ALLOY  
FERRULES: COPPER ALLOY, Ni-Sn PLATED  
TERMINAL BLOCK:  
- HOUSING: THERMOPLASTIC  
- TERMINALS: COPPER ALLOY, FINISH: MIN 0.8um Au ON  
Ni-UNDERLAYER IN CONTACT AREA.  
- TRANSITION BOARD: FR4 FIBERGLASS FILLED EPOXY.  
- LOCKING SCREW: STAINLESS STEEL  
- SCREW STOP: TEFLON
14. MAXIMUM APPLICABLE TORQUE ON LOCKING SCREW = 0.3um

|                                                                                       |            |                         |          |              |      |
|---------------------------------------------------------------------------------------|------------|-------------------------|----------|--------------|------|
|  | title      | CABLE ASSEMBLY          | dwg no   | 10054999     | Rev. |
|                                                                                       |            | DENSI-SHIELD I/O 8 PAIR |          |              | L    |
|                                                                                       | catalog no | -                       | CUSTOMER | sheet 4 of 4 |      |