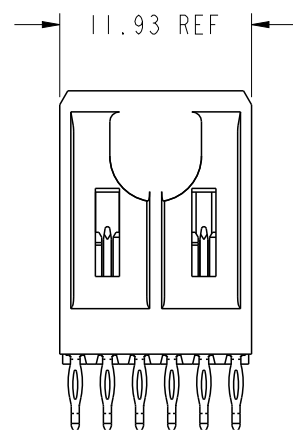
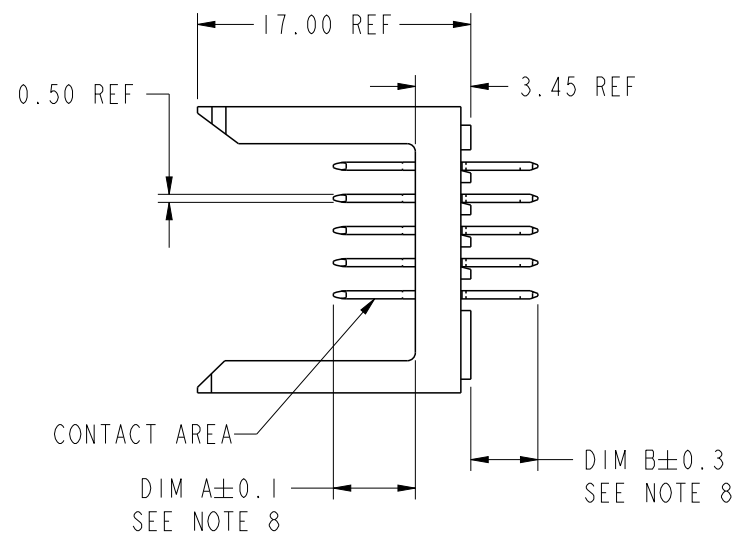
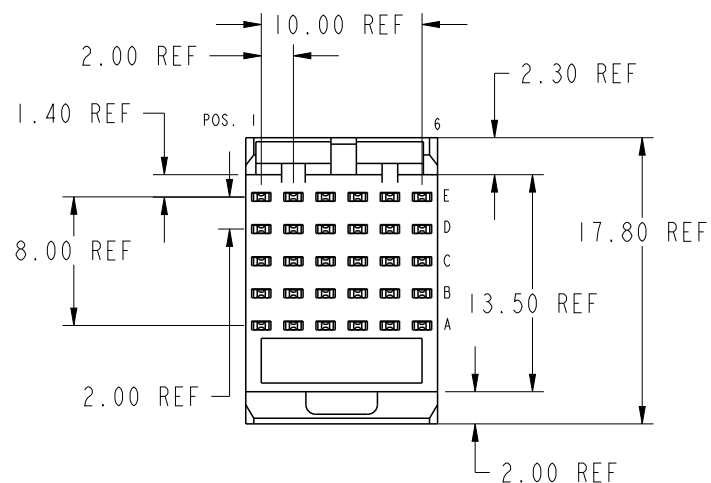
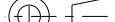


|                |
|----------------|
| PRODUCT NUMBER |
| 85838-XYX      |
| 85838-XYXLF    |

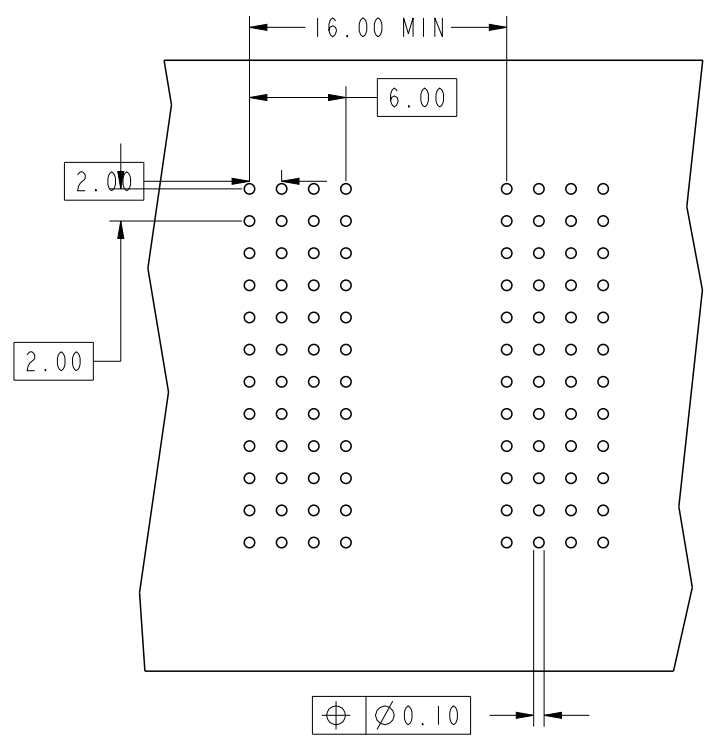


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|                     |  |  |  |                                       |  |       |  |                                                                                     |  |              |  |                      |  |                                                                                       |  |                                                                                       |  |                        |  |                 |  |                |  |        |  |           |  |
|---------------------|--|--|--|---------------------------------------|--|-------|--|-------------------------------------------------------------------------------------|--|--------------|--|----------------------|--|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|------------------------|--|-----------------|--|----------------|--|--------|--|-----------|--|
| spec ref            |  |  |  | *                                     |  |       |  | dr                                                                                  |  | Terran Huang |  | 2010/07/08           |  | projection                                                                            |  |  |  | MM                     |  | size            |  | A4             |  | scale  |  | 11:10     |  |
| tolerance std       |  |  |  | TOLERANCES UNLESS OTHERWISE SPECIFIED |  |       |  | eng                                                                                 |  | Julia Wang   |  | 2012/09/19           |  |  |  |                                                                                       |  | ecn no                 |  | ELX-DG-012854-1 |  |                |  |        |  |           |  |
| ISO 406<br>ISO 1101 |  |  |  | chr                                   |  | -     |  | -                                                                                   |  | appr         |  | Pei-Ming Zheng       |  |                                                                                       |  |                                                                                       |  |                        |  | 2012/09/19      |  | product family |  | METRAL |  | rel level |  |
| surface             |  |  |  | linear                                |  |       |  |  |  | title        |  | METRAL SIGNAL HEADER |  | dwg no                                                                                |  | 85838                                                                                 |  | rev                    |  | B1              |  |                |  |        |  |           |  |
|                     |  |  |  | 0.X                                   |  | ±0.03 |  |                                                                                     |  |              |  |                      |  |                                                                                       |  |                                                                                       |  |                        |  |                 |  |                |  |        |  |           |  |
|                     |  |  |  | 0.XX                                  |  | ±0.13 |  |                                                                                     |  |              |  |                      |  |                                                                                       |  |                                                                                       |  |                        |  |                 |  |                |  |        |  |           |  |
| ISO 1302            |  |  |  | angular                               |  |       |  | 0°                                                                                  |  | ±2°          |  | www.fci.com          |  | cat. no.                                                                              |  | -                                                                                     |  | Product - Customer Drw |  | sheet 1 of 9    |  |                |  |        |  |           |  |



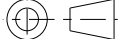
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REQUIRED PC BOARD LAYOUT  
COMPONENT SIDE  
SEE PRINT 58351 FOR  
ADDITIONAL PCB INFORMATION

| KEY  |                 |                 |
|------|-----------------|-----------------|
| CODE | DIMENSIONS      |                 |
|      | DIM "A"<br>MATE | DIM "B"<br>TAIL |
| 1    | 5.00            | 4.30            |
| 2    | 5.75            | 4.30            |
| 3    | 6.50            | 4.30            |
| 4    | 7.25            | 4.30            |
| 5    | 5.00            | 13.60           |
| 6    | 5.75            | 13.60           |
| 7    | 6.50            | 13.60           |
| 8    | 7.25            | 13.60           |
| 9    | 5.00            | 17.00           |
| 10   | 5.75            | 17.00           |
| 11   | 6.50            | 17.00           |
| 12   | 7.25            | 17.00           |
| 13   | 8.25            | 4.30            |
| 14   | 8.25            | 13.60           |
| 15   | 8.25            | 17.00           |
| 16   | 7.00            | 4.30            |
| 17   | 7.00            | 13.60           |
| 18   | 7.00            | 17.00           |
| 19   | 8.00            | 4.30            |

| KEY  |                 |                 |
|------|-----------------|-----------------|
| CODE | DIMENSIONS      |                 |
|      | DIM "A"<br>MATE | DIM "B"<br>TAIL |
| 20   | 8.00            | 13.60           |
| 21   | 8.00            | 17.00           |
| 22   | 5.00            | 12.10           |
| 25   | 5.75            | 15.60           |
| 40   | 5.00            | 15.60           |
| 41   | 6.50            | 15.60           |
| 42   | 7.25            | 15.60           |
| 43   | 8.00            | 15.60           |
| 44   | 5.75            | 12.10           |
| 45   | 6.50            | 12.10           |
| 48   | 5.00            | 15.10           |
| 54   | 5.00            | 11.50           |
| 55   | 5.75            | 11.50           |
| 56   | 6.50            | 11.50           |
| 59   | 5.00            | 11.80           |
| 60   | 5.75            | 11.80           |
| 61   | 6.50            | 11.80           |
| 62   | 7.25            | 11.80           |
| 63   | 8.00            | 11.80           |

|                                                                                     |                |                        |                                                                                                     |                                                                                             |                      |                 |                        |          |     |              |  |
|-------------------------------------------------------------------------------------|----------------|------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|-----------------|------------------------|----------|-----|--------------|--|
| dr                                                                                  | Terran Huang   | 2010/07/08             | projection<br> | MM<br> | size                 | A4              | scale                  | 21:10    |     |              |  |
| eng                                                                                 | Julia Wang     | 2012/09/19             |                                                                                                     |                                                                                             | ecn no               | ELX-DG-012854-1 |                        |          |     |              |  |
| chr                                                                                 | -              | -                      |                                                                                                     |                                                                                             | rel level            |                 |                        | Released |     |              |  |
| appr                                                                                | Pei-Ming Zheng | 2012/09/19             | product family                                                                                      |                                                                                             | METRAL               |                 |                        |          |     |              |  |
|  |                | title                  |                                                                                                     |                                                                                             | METRAL SIGNAL HEADER |                 | dwg no                 | 85838    | rev | BH           |  |
|                                                                                     |                | I MOD, 5 ROW PRESS-FIT |                                                                                                     |                                                                                             |                      |                 |                        |          |     |              |  |
| www.fci.com                                                                         |                | cat. no.               |                                                                                                     |                                                                                             | -                    |                 | Product - Customer Drw |          |     | sheet 2 of 9 |  |



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|-------------|----------------|------------|-----------------------------------|---------------------------|------------------------|------------------------|-------|--------|--|--------------|--|-----|--|
| dr          | Terran Huang   | 2010/07/08 | <div>projection</div> <div></div> | <div>MM</div> <div></div> | size                   | A4                     | scale | 11:10  |  |              |  |     |  |
| eng         | Julia Wang     | 2012/09/19 |                                   |                           | ecn no                 | ELX-DG-012854-1        |       |        |  |              |  |     |  |
| chr         | -              | -          |                                   |                           | rel level              | Released               |       |        |  |              |  |     |  |
| appr        | Pei-Ming Zheng | 2012/09/19 | product family                    |                           | METRAL                 |                        |       |        |  |              |  |     |  |
|             |                | title      |                                   |                           | METRAL SIGNAL HEADER   |                        |       | dwg no |  | 85838        |  | rev |  |
|             |                |            |                                   |                           | I MOD, 5 ROW PRESS-FIT |                        |       |        |  |              |  | B1  |  |
| www.fci.com |                | cat. no.   |                                   | -                         |                        | Product - Customer Drw |       |        |  | sheet 3 of 9 |  |     |  |



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ProjE File - REV C - 2009-06-09

|                        |                |                      |                                   |                           |           |                        |       |              |  |
|------------------------|----------------|----------------------|-----------------------------------|---------------------------|-----------|------------------------|-------|--------------|--|
| dr                     | Terran Huang   | 2010/07/08           | <div>projection</div> <div></div> | <div>MM</div> <div></div> | size      | A4                     | scale | 11:10        |  |
| eng                    | Julia Wang     | 2012/09/19           |                                   |                           | ecn no    | ELX-DG-012854-1        |       |              |  |
| chr                    | -              | -                    |                                   |                           | rel level | Released               |       |              |  |
| appr                   | Pei-Ming Zheng | 2012/09/19           | product family                    |                           | METRAL    |                        |       |              |  |
|                        |                | title                |                                   |                           |           | dwg no                 |       | rev          |  |
|                        |                | METRAL SIGNAL HEADER |                                   |                           |           | 85838                  |       | BI           |  |
| I MOD, 5 ROW PRESS-FIT |                |                      |                                   |                           |           |                        |       |              |  |
| www.fci.com            |                | cat. no.             |                                   | -                         |           | Product - Customer Drw |       | sheet 4 of 9 |  |

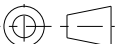
PDS: Rev :BH

STATUS:Released

Printed: Sep 19, 2012



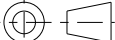
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|                                                                                     |                |                        |                                                                                                                        |                                                                                                                |                      |                        |                 |              |
|-------------------------------------------------------------------------------------|----------------|------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------|------------------------|-----------------|--------------|
| dr                                                                                  | Terran Huang   | 2010/07/08             | <div>projection</div> <div></div> | <div>MM</div> <div></div> | size                 | A4                     | scale           | 11:10        |
| eng                                                                                 | Julia Wang     | 2012/09/19             |                                                                                                                        |                                                                                                                | ecn no               |                        | ELX-DG-012854-1 |              |
| chr                                                                                 | -              | -                      |                                                                                                                        |                                                                                                                | rel level            |                        | Released        |              |
| appr                                                                                | Pei-Ming Zheng | 2012/09/19             | product family                                                                                                         |                                                                                                                | METRAL               |                        |                 |              |
|  |                | title                  |                                                                                                                        |                                                                                                                | METRAL SIGNAL HEADER |                        |                 | rev          |
|                                                                                     |                | I MOD, 5 ROW PRESS-FIT |                                                                                                                        |                                                                                                                | dwg no               |                        |                 | 85838        |
|                                                                                     |                |                        |                                                                                                                        |                                                                                                                |                      |                        |                 | BI           |
| www.fci.com                                                                         |                | cat. no.               |                                                                                                                        | -                                                                                                              |                      | Product - Customer Drw |                 | sheet 5 of 9 |



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ProjE File - REV C - 2009-06-09

|                                                                                     |                |                        |                                                                                                                        |                                                                                                                |                      |                        |       |              |
|-------------------------------------------------------------------------------------|----------------|------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------|------------------------|-------|--------------|
| dr                                                                                  | Terran Huang   | 2010/07/08             | <div>projection</div> <div></div> | <div>MM</div> <div></div> | size                 | A4                     | scale | 11:10        |
| eng                                                                                 | Julia Wang     | 2012/09/19             |                                                                                                                        |                                                                                                                | ecn no               | ELX-DG-012854-1        |       |              |
| chr                                                                                 | -              | -                      |                                                                                                                        |                                                                                                                | rel level            | Released               |       |              |
| appr                                                                                | Pei-Ming Zheng | 2012/09/19             | product family                                                                                                         |                                                                                                                | METRAL               |                        |       |              |
|  |                | title                  |                                                                                                                        |                                                                                                                | METRAL SIGNAL HEADER |                        |       | rev          |
|                                                                                     |                | I MOD, 5 ROW PRESS-FIT |                                                                                                                        |                                                                                                                | dwg no               |                        |       | 85838        |
|                                                                                     |                |                        |                                                                                                                        |                                                                                                                |                      |                        |       | BI           |
| www.fci.com                                                                         |                | cat. no.               |                                                                                                                        | -                                                                                                              |                      | Product - Customer Drw |       | sheet 6 of 9 |

PDS: Rev :BH

STATUS:Released

Printed: Sep 19, 2012



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|             |                |                        |                                   |                           |                      |                 |                        |       |
|-------------|----------------|------------------------|-----------------------------------|---------------------------|----------------------|-----------------|------------------------|-------|
| dr          | Terran Huang   | 2010/07/08             | <div>projection</div> <div></div> | <div>MM</div> <div></div> | size                 | A4              | scale                  | 11:10 |
| eng         | Julia Wang     | 2012/09/19             |                                   |                           | ecn no               | ELX-DG-012854-1 |                        |       |
| chr         | -              | -                      |                                   |                           | rel level            | Released        |                        |       |
| appr        | Pei-Ming Zheng | 2012/09/19             | product family                    |                           | METRAL               |                 |                        |       |
|             |                | title                  |                                   |                           | METRAL SIGNAL HEADER |                 | rev                    |       |
|             |                | 1 MOD, 5 ROW PRESS-FIT |                                   |                           | dwg no               |                 | 85838                  |       |
| www.fci.com |                | cat. no.               |                                   |                           | -                    |                 | Product - Customer Drw |       |
|             |                |                        |                                   |                           |                      |                 | sheet 7 of 9           |       |
|             |                |                        |                                   |                           |                      |                 | BH                     |       |

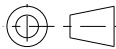


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| METRAL<br>P/N | ROW | CONTACT CODE<br>MOD. I |   |   |   |   |   |
|---------------|-----|------------------------|---|---|---|---|---|
|               |     | 1                      | 2 | 3 | 4 | 5 | 6 |
| 85838-X81     | E   | 3                      | 3 | 3 | 3 | 3 | 3 |
|               | D   | 1                      | 1 | 1 | 1 | 1 | 1 |
|               | C   | 1                      | 1 | 1 | 1 | 1 | 1 |
| -----         | B   | 1                      | 1 | 1 | 1 | 1 | 1 |
|               | A   | 1                      | 1 | 1 | 1 | 1 | 1 |

| METRAL<br>P/N | ROW | CONTACT CODE<br>MOD. I |   |   |   |   |   |
|---------------|-----|------------------------|---|---|---|---|---|
|               |     | 1                      | 2 | 3 | 4 | 5 | 6 |
| 85838-X82     | E   | 1                      | 1 | 1 | 1 | 1 | 1 |
|               | D   | 1                      | 1 | 1 | 1 | 1 | 1 |
|               | C   | 2                      | 2 | 2 | 2 | 2 | 2 |
| -----         | B   | 1                      | 1 | 1 | 1 | 1 | 1 |
|               | A   | 1                      | 1 | 1 | 1 | 1 | 1 |

| METRAL<br>P/N | ROW | CONTACT CODE<br>MOD. I |   |   |   |   |   |
|---------------|-----|------------------------|---|---|---|---|---|
|               |     | 1                      | 2 | 3 | 4 | 5 | 6 |
| 85838-X83     | E   | 1                      | 1 | - | 1 | 1 | 1 |
|               | D   | 3                      | 3 | - | 3 | 3 | 3 |
|               | C   | -                      | - | 3 | 3 | 3 | 3 |
| -----         | B   | 3                      | 3 | - | 3 | 3 | 3 |
|               | A   | 1                      | 1 | - | 1 | 1 | 1 |

|                                                                                     |                |            |                                                                                                             |                                                                                                     |                        |                 |                        |       |
|-------------------------------------------------------------------------------------|----------------|------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------|-----------------|------------------------|-------|
| dr                                                                                  | Terran Huang   | 2010/07/08 | <div>projection</div>  | <div>MM</div>  | size                   | A4              | scale                  | 11:10 |
| eng                                                                                 | Julia Wang     | 2012/09/19 |                                                                                                             |                                                                                                     | ecn no                 | ELX-DG-012854-1 |                        |       |
| chr                                                                                 | -              | -          |                                                                                                             |                                                                                                     | rel level              | Released        |                        |       |
| appr                                                                                | Pei-Ming Zheng | 2012/09/19 | product family                                                                                              |                                                                                                     | METRAL                 |                 |                        |       |
|  |                | title      |                                                                                                             |                                                                                                     | METRAL SIGNAL HEADER   |                 | rev                    |       |
|                                                                                     |                |            |                                                                                                             |                                                                                                     | I MOD, 5 ROW PRESS-FIT |                 | BH                     |       |
| www.fci.com                                                                         |                | cat. no.   |                                                                                                             |                                                                                                     | -                      |                 | Product - Customer Drw |       |
|                                                                                     |                |            |                                                                                                             |                                                                                                     |                        |                 | sheet 8 of 9           |       |

## PRODUCT NUMBER

85838-XYX

85838-XYXLF

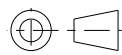
## NOTES:

- FOR DIM A AND B SEE SHEET 2 AND UP.
- BODY MATERIAL: LIQUID CRYSTAL  
POLYMER 30 % GLASS.  
FLAME RETARDANT ACC. UL 94-V0.
- PIN MATERIAL:  
PHOSPHOR BRONZE.
- PLATING ON PRESS-FIT TAIL: 85838-XYX IS SnPb, 85838-XYXLF IS Sn(LEAD FREE)  
CONTACT AREA CONFORMS TO PERFORMANCE LEVEL  
SHOWN IN TABLE BELOW.
- PRODUCT MARKING:  
PART NUMBER DESIGNATION & BATCH I.D.
- ALL PRODUCTS WITH PART NUMBERS SHOWN IN  
SUBSEQUENT TABLES WILL BE PACKAGED IN TUBES.  
IF TRAY PACKAGING IS REQUIRED, A SUFFIX "P"  
WILL BE ADDED TO THE END OF THE PART NUMBER.  
EXAMPLE: XXXXX-XXXP
- PRODUCT SPECIFICATION: GS-12-180  
APPLICATION SPECIFICATION: BUS-20-073
- AFTER INSERTION INTO CIRCUIT BOARD WITH  
QUALIFIED TOOL.
- A PLATING HAS Au FLASH IN PRESS FIT AREA (LEAD FREE).

10. THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE  
EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS  
AS DESCRIBED IN GS-22-008.

ALL PRODUCTS EXCEPT THOSE WITH PART NUMBERS CONTAINING  
(DRAWING NO.)-N1--- OR (DRAWING NO.)-N5---WILL WITHSTAND EXPOSURE  
TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR  
VAPOR PHASE REFLOW OVEN. PART NUMBERS (DRAWING NO.)-N1---  
AND (DRAWINGS NO.)-N5---WILL NOT WITHSTAND REFLOW AND Au CONTACT  
SURFACE OF THE CONTACTS SHALL BE EXPOSED TO A MAXIMUM 140°C FOR  
NO LONGER THAN 15 SECONDS IN A WAVE SOLDER APPLICATION.

| PLATING IN CONTACT AREA |                                   | NOTES       |
|-------------------------|-----------------------------------|-------------|
| DASH NUMBER             | PERFORMANCE LEVEL                 | -           |
| -AYX                    | TELCORDIA CO (SEE NOTE 9)         | -           |
| -N1XX                   | TELCORDIA CO (NXT)                | -           |
| -N5XX                   | TELCORDIA UE (NXT)                | -           |
| -1XX                    | TELCORDIA CO                      | -           |
| -2XX                    | TELECOM CLASS                     | -           |
| -3XX                    | IEC CLASS I                       | -           |
| -5XX                    | TELCORDIA UE                      | -           |
| -AYXLF                  | TELCORDIA CO (SEE NOTE 9)         | SEE NOTE 10 |
| -N1XXLF                 | TELCORDIA CO (NXT)<br>IEC CLASS I | SEE NOTE 10 |
| -N5XXLF                 | TELCORDIA UE (NXT)                | SEE NOTE 10 |
| -1XXLF                  | TELCORDIA CO<br>IEC CLASS I       | SEE NOTE 10 |
| -2XXLF                  | TELECOM CLASS                     | SEE NOTE 10 |
| -5XXLF                  | TELCORDIA UE                      | SEE NOTE 10 |

|                                                                                     |                |            |                                                                                                     |                                                                                             |           |                        |       |              |    |  |
|-------------------------------------------------------------------------------------|----------------|------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------|------------------------|-------|--------------|----|--|
| dr                                                                                  | Terran Huang   | 2010/07/08 | projection<br> | MM<br> | size      | A4                     | scale | 11:10        |    |  |
| eng                                                                                 | Julia Wang     | 2012/09/19 |                                                                                                     |                                                                                             | ecn no    | ELX-DG-012854-1        |       |              |    |  |
| chr                                                                                 | -              | -          |                                                                                                     |                                                                                             | rel level | Released               |       |              |    |  |
| appr                                                                                | Pei-Ming Zheng | 2012/09/19 | product family                                                                                      |                                                                                             | METRAL    |                        |       |              |    |  |
|  |                |            | title                                                                                               |                                                                                             |           | METRAL SIGNAL HEADER   |       | rev          |    |  |
|                                                                                     |                |            |                                                                                                     |                                                                                             |           | 1 MOD, 5 ROW PRESS-FIT |       |              |    |  |
| www.fci.com                                                                         |                |            | cat. no.                                                                                            |                                                                                             |           | -                      |       |              |    |  |
|                                                                                     |                |            |                                                                                                     |                                                                                             |           | dwg no                 |       | 85838        | BH |  |
|                                                                                     |                |            |                                                                                                     |                                                                                             |           | Product - Customer Drw |       | sheet 9 of 9 |    |  |

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