

# LOW-PROFILE CABLE

NOTES:

## 1. ORDERING INFORMATION:

14XX-P XX-00-X.XX

10-UNIVERSAL PULLTAB (BOTTOM)

11-UNIVERSAL PULLTAB (TOP)

LENGTH OPTIONS "L" (in meters)  
 -30 AWG up to 5 meters  
 26 AWG for 4 to 7 meters

## PASSIVE UNEQUALIZED—

| CODE | CABLE CONFIGURATION                      |
|------|------------------------------------------|
| 11   | 30AWG LOW-PROFILE HALOGEN FREE JACKET    |
| 17   | 30AWG LOW-PROFILE PVC JACKET COLOR BLACK |
| 30   | 26AWG LOW-PROFILE PVC JACKET COLOR BLACK |

## 2. MATERIALS:

- ① - SFP + SHELL KIT, 2 PCS
- ② - HEAT SHRINKABLE TUBE BLACK (OPTIONAL), 2 PCS
- ③ - L10NG LABEL=CLEAR/WHITE BACKGROUND WITH BLACK TEXT, TEXT H=2.00MM, ARIAL, L\*W=40\*30MM, "YYWW" IS DATE CODE, e.g YEAR=2007, WEEK=26, YYWW=0726

3. JACKET TYPES: HALOGEN FREE / PVC, COLOR: BLACK

4. THIS CABLE ASSEMBLY IS ROHS COMPLIANT

## 5. BULK CABLE MEETS UL TEMP. RANGE -20°C TO +80°C

6. BULK CABLE IMPEDANCE:  $100 \pm 5$  OHMS (DIFFERENTIAL)

## 7. DESIGN TO SFP+ STANDARD SFF-8431

8. UNLESS OTHERWISE NOTED, REFERENCES TO INDUSTRY SPECIFICATIONS ARE INTENDED TO INDICATE COMPLIANCE TO THE MATERIAL ELEMENTS OF THE SPECIFICATION. SUCH REFERENCES SHOULD NOT BE CONSTRUED AS A GUARANTEE OF COMPLIANCE TO ALL REQUIREMENTS IN A GIVEN SPECIFICATION.

(13.4)

|                    |               |                 |              |                            |                |              |
|--------------------|---------------|-----------------|--------------|----------------------------|----------------|--------------|
|                    | F             | 0068166         | JUN 03, 2016 | YL                         | YL             |              |
|                    | E             | 0063511         | AUG 19, 2015 | YL                         | YL             |              |
|                    | D             | 0053900         | MAR 18, 2014 | YL                         | YL             |              |
| DESIGN REFERENCE   | NEXT ASSEMBLY | REV             | ECO          | ISSUE DATE AND DESCRIPTION | DRT            | CHKD         |
| DISTRIBUTION CODES |               | DEPT            | YUN.LONG     | DATE                       | WFG            | DATE         |
|                    |               | CHKD            | YUN.LONG     | AUG 19, 2015               | EDDIE          | AUG 19, 2015 |
|                    |               |                 |              | DATE                       | APPL           | DATE         |
|                    |               |                 | YUN.LONG     | AUG 19, 2015               | SAMU'IT BANDHU | AUG 19, 2015 |
| DIVISION           |               |                 |              |                            |                |              |
| ESD                |               |                 |              |                            |                |              |
| SCALE              | SCALE         | TOLERANCES      |              |                            |                |              |
| DRAWING            | 1.3           | EXCEPT AS NOTED |              |                            |                |              |



3M Center

St. Paul,

MN 55144

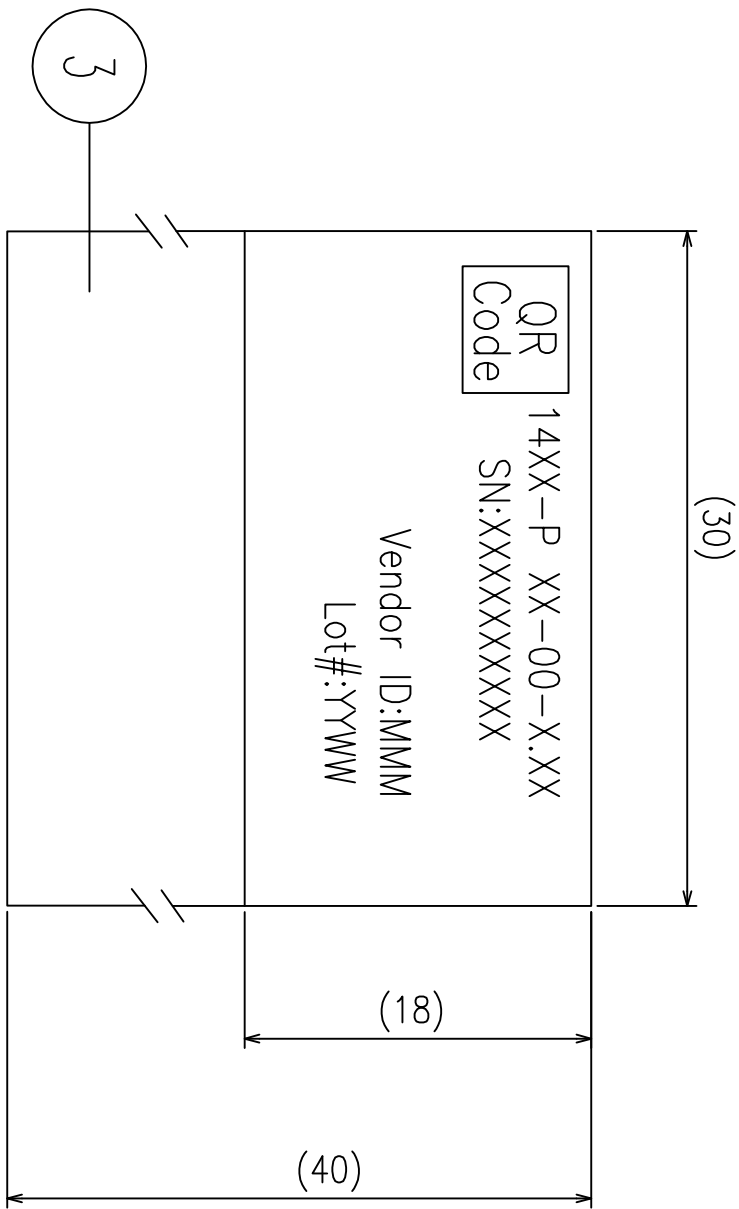
This document contains 3M proprietary information and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.

© 3M, COPRIGHT 2016

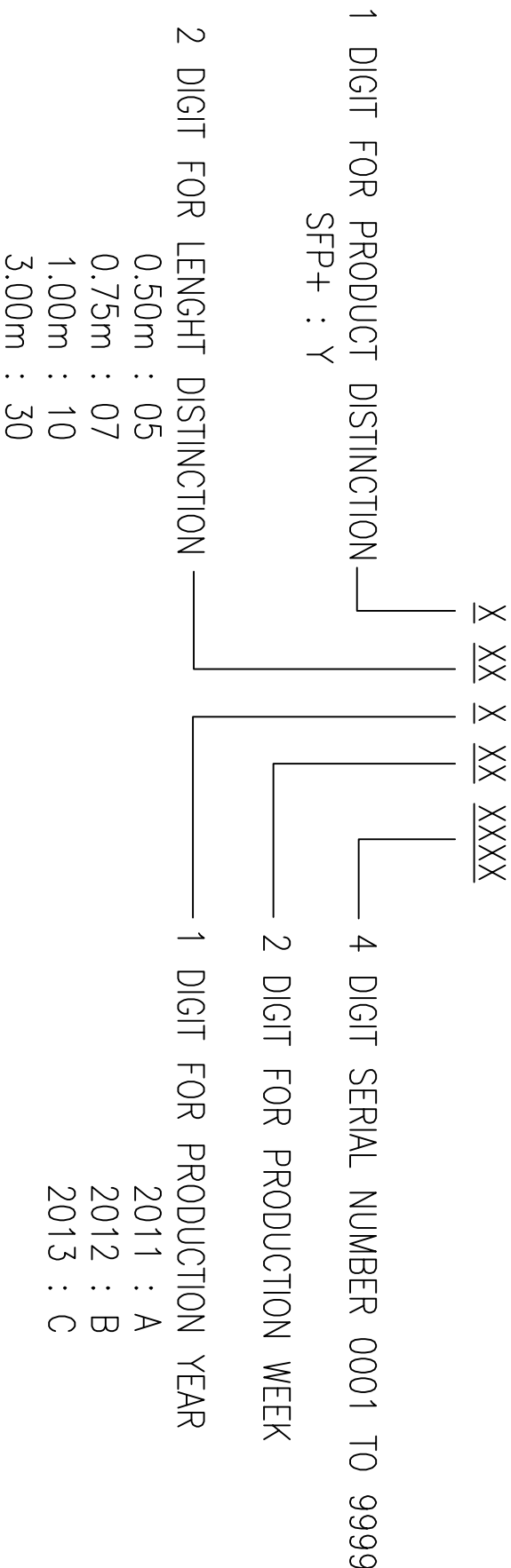
containing are

|                                                                                     |  |                                                                                             |  |                                                                                                                                   |  |
|-------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------|--|
| DRAWING                                                                             |  | 1                                                                                           |  | TITLE                                                                                                                             |  |
|  |  | INCHES<br>.0<br>.00<br>.000<br>.0000<br>±                                                   |  | MILLIMETERS<br>0<br>.0<br>.00<br>.000<br>±                                                                                        |  |
| THIRD ANGLE PROJECTION                                                              |  |                                                                                             |  |                                                                                                                                   |  |
| INTERPRET PER<br>ASME Y14.5 - 1994                                                  |  |                                                                                             |  |                                                                                                                                   |  |
| MAX SURFACE ROUGHNESS<br>125 / <input type="checkbox"/> ALL SURFACES                |  |                                                                                             |  |                                                                                                                                   |  |
| <input checked="" type="checkbox"/> MARKED ONLY                                     |  |                                                                                             |  |                                                                                                                                   |  |
| ANGLES ±1°                                                                          |  |                                                                                             |  |                                                                                                                                   |  |
| CAGE<br>NUMBER                                                                      |  | SIZE<br> |  | REV.                                                                                                                              |  |
| DRAWING NO.<br>78-5100-2418-1                                                       |  | 3M™ PASSIVE TWIN AXIAL CABLE<br>ASSEMBLY FOR SFP + APPLICATIONS<br>WITH UNIVERSAL PULL TAB  |  | DET. <input type="checkbox"/> DES. <input checked="" type="checkbox"/> ASST. <input type="checkbox"/> OF <input type="checkbox"/> |  |

LABEL DETAIL



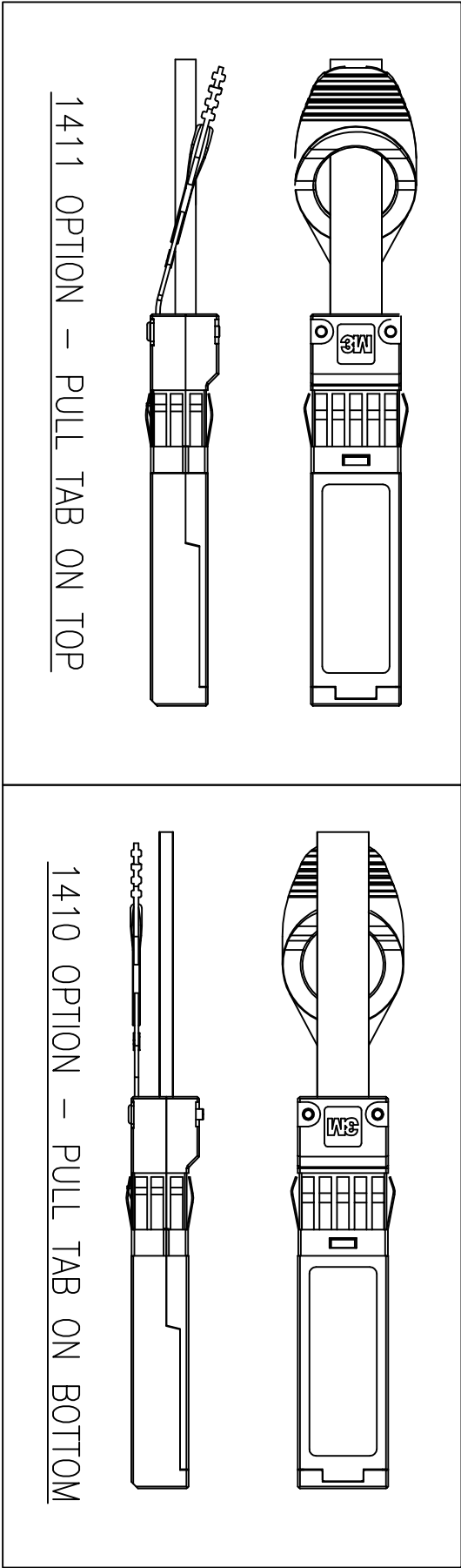
SERIAL NUMBER (QR CODE) FORMAT:



ASSEMBLY PINOUT

| P1/P2   |            |
|---------|------------|
| PIN NO. | SYMBOL     |
| 1       | Veet       |
| 2       | Tx_Fault   |
| 3       | Tx_Disable |
| 4       | SDA        |
| 5       | SCL        |
| 6       | Mod_ABS    |
| 7       | RS0        |
| 8       | Rx_LoS     |
| 9       | RS1        |
| 10      | Veer       |

| P1  |     | P2  |     |
|-----|-----|-----|-----|
| B11 | GND | B20 | GND |
| B12 | Rx- | B19 | Tx- |
| B13 | Rx+ | B18 | Tx+ |
| B14 | GND | B17 | GND |
| B15 | -   | B16 | -   |
| B16 | -   | B15 | -   |
| B17 | GND | B14 | GND |
| B18 | Tx+ | B13 | Rx+ |
| B19 | Tx- | B12 | Rx- |
| B20 | GND | B11 | GND |



EXAMPLE - PART NUMBER ORDER DETAIL

| 3M™ CABLE ASSEMBLY P/N | CABLE OPTIONS | CABLE SIZE (AWG) | CABLE LENGTH (METERS) "M" | TOTAL LENGTH (METERS) "L" | PULL TAB OPTIONS |
|------------------------|---------------|------------------|---------------------------|---------------------------|------------------|
| 1410-P17-00-1.00       | PVC, Black    | 30 AWG           | 0.88                      | 1.0                       | BOTTOM           |
| 1410-P17-00-2.00       | PVC, Black    | 30 AWG           | 1.88                      | 2.0                       | BOTTOM           |
| 1410-P17-00-3.00       | PVC, Black    | 30 AWG           | 2.88                      | 3.0                       | BOTTOM           |
| 1410-P17-00-4.00       | PVC, Black    | 30 AWG           | 3.88                      | 4.0                       | BOTTOM           |
| 1410-P17-00-5.00       | PVC, Black    | 30 AWG           | 4.88                      | 5.0                       | BOTTOM           |
| 1410-P30-00-4.00       | PVC, Black    | 26 AWG           | 3.88                      | 4.0                       | BOTTOM           |
| 1410-P30-00-5.00       | PVC, Black    | 26 AWG           | 4.88                      | 5.0                       | BOTTOM           |
| 1410-P30-00-6.00       | PVC, Black    | 26 AWG           | 5.88                      | 6.0                       | BOTTOM           |
| 1410-P30-00-7.00       | PVC, Black    | 26 AWG           | 6.88                      | 7.0                       | BOTTOM           |
| 1411-P17-00-1.00       | PVC, Black    | 30 AWG           | 0.88                      | 1.0                       | TOP              |
| 1411-P17-00-2.00       | PVC, Black    | 30 AWG           | 1.88                      | 2.0                       | TOP              |
| 1411-P17-00-3.00       | PVC, Black    | 30 AWG           | 2.88                      | 3.0                       | TOP              |
| 1411-P17-00-4.00       | PVC, Black    | 30 AWG           | 3.88                      | 4.0                       | TOP              |
| 1411-P17-00-5.00       | PVC, Black    | 30 AWG           | 4.88                      | 5.0                       | TOP              |
| 1411-P30-00-4.00       | PVC, Black    | 26 AWG           | 3.88                      | 4.0                       | TOP              |
| 1411-P30-00-5.00       | PVC, Black    | 26 AWG           | 4.88                      | 5.0                       | TOP              |
| 1411-P30-00-6.00       | PVC, Black    | 26 AWG           | 5.88                      | 6.0                       | TOP              |
| 1411-P30-00-7.00       | PVC, Black    | 26 AWG           | 6.88                      | 7.0                       | TOP              |

|                                                                                     |     |                            |      |            |             |      |
|-------------------------------------------------------------------------------------|-----|----------------------------|------|------------|-------------|------|
| DESIGN REFERENCE                                                                    |     | NEXT ASSEMBLY              |      |            |             |      |
| REV                                                                                 | ECO | ISSUE DATE AND DESCRIPTION | DRFT | CHKD       |             |      |
| YUNLONG                                                                             |     | DATE                       | DATE | DATE       |             |      |
| YUNLONG                                                                             |     | DATE                       | DATE | DATE       |             |      |
| YUNLONG                                                                             |     | DATE                       | DATE | DATE       |             |      |
| DIVISION                                                                            |     | DIVISION CODE              |      |            |             |      |
| ESD                                                                                 |     | TOLERANCES EXCEPT AS NOTED |      |            |             |      |
| DO NOT SCALE DRAWING                                                                |     | SCALE NTS                  |      |            |             |      |
| THIRD ANGLE PROJECTION                                                              |     | MILLIMETERS                |      |            |             |      |
| INTERPRET PER ASME Y14.5 - 1994                                                     |     | INCHES                     |      |            |             |      |
| MAX SURFACE ROUGHNESS                                                               |     | ANGLES ±1°                 |      |            |             |      |
| 125 / □ ALL SURFACES                                                                |     | MARKED ONLY                |      |            |             |      |
| 3M™ PASSIVE TWIN AXIAL CABLE ASSEMBLY FOR SFP+ APPLICATIONS WITH UNIVERSAL PULL TAB |     | CAGE NUMBER                |      | SIZE       | DRAWING NO. | REV. |
|                                                                                     |     | 78-5100-2418-1             |      |            |             | F    |
|                                                                                     |     | DET.                       |      | SHT 2 OF 2 |             |      |