

# Be Certain with Belden



## PROFINET Double-Ended Cord Sets

CAT5e, High-Flex, Stranded/Shielded, 22 AWG, TPE/PLTC Cable

| Type                   | 0985 S4742 100                                                                                                                                                                                                                                                                              | 0985 S4742 116                                                                                                                                              | 0985 S4742 117                                                                                                                                                | 0985 S4742 104                                                                                                                                             | 0985 S4742 502                                                                                                                                         |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|--------|---|---|-------|---|---|--------|---|---|------|---|-----|--------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|-------|-----|---|--------|---|---|-------|---|---|--------|---|---|------|---|------|--------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|------|---|--------|---|---|-------|---|---|--------|---|---|------|---|------|--------|------|
|                        |                                                                                                                                                                                                                                                                                             |                                                                                                                                                             |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| Product Description    | PROFINET data cable according to type C, molded on both sides with M12 male connector, D coding, stranded/ shielded, 22 AWG with green jacket.                                                                                                                                              | PROFINET data cable according to type C, molded on both sides with M12 male to M12 female connector, D coding, stranded/shielded, 22 AWG with green jacket. | PROFINET data cable according to type C, molded on both sides with M12 female to M12 female connector, D coding, stranded/shielded, 22 AWG with green jacket. | PROFINET data cable according to type C, molded on both sides with M12 male to RJ45 male connector, D coding, stranded/shielded, 22 AWG with green jacket. | PROFINET data cable according to type C, molded on both sides with RJ45 to RJ45 male connector, D coding, stranded/shielded, 22 AWG with green jacket. |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| Technical Illustration |                                                                                                                                                                                                                                                                                             |                                                                                                                                                             |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| Wiring diagram         | <table><tr><td>M12</td><td>Color</td><td>M12</td></tr><tr><td>1</td><td>Yellow</td><td>1</td></tr><tr><td>2</td><td>White</td><td>2</td></tr><tr><td>3</td><td>Orange</td><td>3</td></tr><tr><td>4</td><td>Blue</td><td>4</td></tr><tr><td>Nut</td><td>Shield</td><td>Nut</td></tr></table> |                                                                                                                                                             |                                                                                                                                                               | M12                                                                                                                                                        | Color                                                                                                                                                  | M12 | 1 | Yellow | 1 | 2 | White | 2 | 3 | Orange | 3 | 4 | Blue | 4 | Nut | Shield | Nut | <table><tr><td>RJ45</td><td>Color</td><td>M12</td></tr><tr><td>1</td><td>Yellow</td><td>1</td></tr><tr><td>2</td><td>White</td><td>2</td></tr><tr><td>3</td><td>Orange</td><td>3</td></tr><tr><td>6</td><td>Blue</td><td>4</td></tr><tr><td>Case</td><td>Shield</td><td>Nut</td></tr></table> |  | RJ45 | Color | M12 | 1 | Yellow | 1 | 2 | White | 2 | 3 | Orange | 3 | 6 | Blue | 4 | Case | Shield | Nut | <table><tr><td>RJ45</td><td>Color</td><td>RJ45</td></tr><tr><td>1</td><td>Yellow</td><td>1</td></tr><tr><td>2</td><td>White</td><td>2</td></tr><tr><td>3</td><td>Orange</td><td>3</td></tr><tr><td>6</td><td>Blue</td><td>6</td></tr><tr><td>Case</td><td>Shield</td><td>Case</td></tr></table> | RJ45 | Color | RJ45 | 1 | Yellow | 1 | 2 | White | 2 | 3 | Orange | 3 | 6 | Blue | 6 | Case | Shield | Case |
| M12                    | Color                                                                                                                                                                                                                                                                                       | M12                                                                                                                                                         |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| 1                      | Yellow                                                                                                                                                                                                                                                                                      | 1                                                                                                                                                           |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| 2                      | White                                                                                                                                                                                                                                                                                       | 2                                                                                                                                                           |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| 3                      | Orange                                                                                                                                                                                                                                                                                      | 3                                                                                                                                                           |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| 4                      | Blue                                                                                                                                                                                                                                                                                        | 4                                                                                                                                                           |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| Nut                    | Shield                                                                                                                                                                                                                                                                                      | Nut                                                                                                                                                         |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| RJ45                   | Color                                                                                                                                                                                                                                                                                       | M12                                                                                                                                                         |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| 1                      | Yellow                                                                                                                                                                                                                                                                                      | 1                                                                                                                                                           |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| 2                      | White                                                                                                                                                                                                                                                                                       | 2                                                                                                                                                           |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| 3                      | Orange                                                                                                                                                                                                                                                                                      | 3                                                                                                                                                           |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| 6                      | Blue                                                                                                                                                                                                                                                                                        | 4                                                                                                                                                           |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| Case                   | Shield                                                                                                                                                                                                                                                                                      | Nut                                                                                                                                                         |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| RJ45                   | Color                                                                                                                                                                                                                                                                                       | RJ45                                                                                                                                                        |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| 1                      | Yellow                                                                                                                                                                                                                                                                                      | 1                                                                                                                                                           |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| 2                      | White                                                                                                                                                                                                                                                                                       | 2                                                                                                                                                           |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| 3                      | Orange                                                                                                                                                                                                                                                                                      | 3                                                                                                                                                           |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| 6                      | Blue                                                                                                                                                                                                                                                                                        | 6                                                                                                                                                           |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| Case                   | Shield                                                                                                                                                                                                                                                                                      | Case                                                                                                                                                        |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| Face views             |                                                                                                                                                                                                                                                                                             |                                                                                                                                                             |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
|                        |                                                                                                                                                                                                                                                                                             |                                                                                                                                                             |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| Part number            | 0985 S4742 100/...M                                                                                                                                                                                                                                                                         | 0985 S4742 116/...M                                                                                                                                         | 0985 S4742 117/...M                                                                                                                                           | 0985 S4742 104/...M                                                                                                                                        | 0985 S4742 502/...M                                                                                                                                    |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
| Standard cable lengths |                                                                                                                                                                                                                                                                                             |                                                                                                                                                             |                                                                                                                                                               |                                                                                                                                                            |                                                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |
|                        | 1 M / 2 M / 3 M / 4 M / 5 M / 10 M / 15 M / 20 M                                                                                                                                                                                                                                            | 2 M / 3 M                                                                                                                                                   | 0.5 M / 5 M                                                                                                                                                   | 2 M / 5 M / 8 M / 9 M / 10 M / 12 M / 15 M / 20 M / 25 M / 30 M                                                                                            | 0.5 M / 2 M / 5 M / 10 M / 20 M                                                                                                                        |     |   |        |   |   |       |   |   |        |   |   |      |   |     |        |     |                                                                                                                                                                                                                                                                                               |  |      |       |     |   |        |   |   |       |   |   |        |   |   |      |   |      |        |     |                                                                                                                                                                                                                                                                                                 |      |       |      |   |        |   |   |       |   |   |        |   |   |      |   |      |        |      |

## PROFINET Double-Ended Cord Sets

CAT5e, High-Flex, Stranded/Shielded, 22 AWG, TPE/PLTC Cable

| Type                   | 0985 S4742 100                                                                      | 0985 S4742 116                                                                      | 0985 S4742 117                                                                      | 0985 S4742 104                                                                                                                                     | 0985 S4742 502                                                                        |
|------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Degree of protection   | IP68                                                                                |                                                                                     |                                                                                     | IP68 / IP20                                                                                                                                        | IP20                                                                                  |
| Temperature            | -40°C to 80°C                                                                       |                                                                                     |                                                                                     | -40°C to 70°C                                                                                                                                      |                                                                                       |
| Mechanical             |                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                    |                                                                                       |
| M12 and M12 Receptacle |                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                    |                                                                                       |
| Molded body            | PUR, black                                                                          |                                                                                     |                                                                                     |                                                                                                                                                    |                                                                                       |
| Coupling nut           | Brass, nickel plated                                                                |                                                                                     |                                                                                     |                                                                                                                                                    |                                                                                       |
| Contacts               | Brass, gold over nickel plated                                                      |                                                                                     |                                                                                     |                                                                                                                                                    |                                                                                       |
| Insert                 | PUR, black                                                                          |                                                                                     |                                                                                     |                                                                                                                                                    |                                                                                       |
| RJ45                   |                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                    |                                                                                       |
| Plastic housing        | Polyamid, black                                                                     |                                                                                     |                                                                                     |                                                                                                                                                    |                                                                                       |
| Cable specifications   |                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                    |                                                                                       |
| Cable jacket           | TPE                                                                                 |                                                                                     |                                                                                     |                                                                                                                                                    |                                                                                       |
| Color                  | Green                                                                               |                                                                                     |                                                                                     |                                                                                                                                                    |                                                                                       |
| Conductor              | 22 AWG stranded tinned copper                                                       |                                                                                     |                                                                                     |                                                                                                                                                    |                                                                                       |
| Foil shield            | Aluminum/Polyester                                                                  |                                                                                     |                                                                                     |                                                                                                                                                    |                                                                                       |
| Braided shield         | 100% coverage, tinned copper, 85% coverage                                          |                                                                                     |                                                                                     |                                                                                                                                                    |                                                                                       |
| Approvals              | (UL) PLTC                                                                           |                                                                                     |                                                                                     |                                                                                                                                                    |                                                                                       |
| Characteristics        |                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                    |                                                                                       |
|                        |  |  |  | <br>NOTE: Vibration & Oil Resistant applies to M12 side only. |  |

The application of these products in harsh environments should always be checked before use.  
 Specifications subject to alteration.

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

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