



## UNITRONIC® BUS FF-844 H1 C PVC

FF-844 H1 installation cable with EMC and FR-LSH solution

### Info

- Certified with FOUNDATION FIELDBUS “FF- 844 H1”
- For TYPE A installation



### Benefits

- Cables meet the requirements of ISA/SP50 and the FOUNDATION™ field bus for the cable type A.

### Application range

- FF cables for operating temperature upto +90° C
- Fixed Installation
- Indoor / Outdoor
- Direct burial (Armoured version)
- Tray application (Steel Wire Braid versions)

### Product features

- Flammability : According to IEC 60332-1
- FRLS Property (only For FRLS Outer Sheath)
- Oxygen Index(Min.) : >29% as per ASTM D 2863
- Temp. Index (Min.) : >250 Deg C as per ASTM D 2863

- HCL gas emission (Max.): 20% By weight; Smoke Density : Min. Visibility 40% as per ASTM D 2843

### Norm references / Approvals

- IEC 61158-2
- FF 844
- BS EN 50288-7

### Product Make-up

- Conductor : ATC of Class II
- Core Insulation : XLPE
- Individual and Overall Screening : AL-MYLAR tape
- Inner Sheath : Special PVC, flame-retardant low smoke low halogen, orange
- Mechanical Protection : SSA -Steel strip armour / SWA-Steel wire armour / SY-Steel Braid
- Outer Sheath : Special PVC, flame-retardant low smoke low halogen with UV and AR, orange

### Technical data

- Core identification code**  
Blue and orange cores with numerical printing for pair identification
- Peak operating voltage**  
300 V
- Conductor resistance**  
23.5 Ohm/Km
- Minimum bending radius**  
Unarmoured= 10 X OD  
Armoured= 18 X OD
- Temperature range**  
-30°C to +90°C

| Article number | Number of pairs and AWG size | Outer diameter [mm] | Colour | Copper index (kg/km) | Weight (kg/km) |
|----------------|------------------------------|---------------------|--------|----------------------|----------------|
| 382200001      | 1 X 2 X 18                   | 9.0                 | orange | 15.3                 | 123.41         |
| 382200025      | 2 X 2 X 18                   | 15.0                | orange | 30.7                 | 266.26         |
| 382200049      | 3 X 2 X 18                   | 15.9                | orange | 46.0                 | 325.75         |
| 382200073      | 4 X 2 X 18                   | 17.6                | orange | 61.4                 | 400.77         |
| 382200097      | 5 X 2 X 18                   | 19.6                | orange | 76.7                 | 509.03         |
| 382200121      | 6 X 2 X 18                   | 21.4                | orange | 92.1                 | 587.72         |
| 382200145      | 7 X 2 X 18                   | 21.4                | orange | 107.4                | 632.94         |
| 382200169      | 8 X 2 X 18                   | 24.3                | orange | 122.8                | 767.72         |
| 382200193      | 9 X 2 X 18                   | 26.6                | orange | 138.1                | 858.15         |
| 382200217      | 10 X 2 X 18                  | 27.9                | orange | 153.5                | 940.18         |
| 382200241      | 11 X 2 X 18                  | 27.9                | orange | 168.8                | 985.41         |
| 382200265      | 12 X 2 X 18                  | 28.8                | orange | 184.2                | 1,054.36       |
| 382200050      | 3 X 2 X 18                   | 20.9                | orange | 46.0                 | 822.43         |
| 382200074      | 4 X 2 X 18                   | 22.4                | orange | 61.4                 | 932.19         |
| 382200098      | 5 X 2 X 18                   | 24.6                | orange | 76.7                 | 1,110.86       |
| 382200122      | 6 X 2 X 18                   | 26.6                | orange | 92.1                 | 1,259.42       |
| 382200146      | 7 X 2 X 18                   | 26.6                | orange | 107.4                | 1,304.64       |
| 382200170      | 8 X 2 X 18                   | 29.7                | orange | 122.8                | 1,541.46       |
| 382200194      | 9 X 2 X 18                   | 32.2                | orange | 138.1                | 1,718.55       |
| 382200218      | 10 X 2 X 18                  | 33.3                | orange | 153.5                | 1,819.92       |
| 382200242      | 11 X 2 X 18                  | 33.3                | orange | 168.8                | 1,865.15       |
| 382200266      | 12 X 2 X 18                  | 34.6                | orange | 184.2                | 2,000.81       |
| 382200052      | 3 X 2 X 18                   | 20.9                | orange | 46.0                 | 822.43         |
| 382200076      | 4 X 2 X 18                   | 22.4                | orange | 61.4                 | 932.19         |
| 382200100      | 5 X 2 X 18                   | 24.6                | orange | 76.7                 | 1,110.86       |
| 382200124      | 6 X 2 X 18                   | 26.6                | orange | 92.1                 | 1,259.42       |
| 382200148      | 7 X 2 X 18                   | 26.6                | orange | 107.4                | 1,304.64       |
| 382200172      | 8 X 2 X 18                   | 29.7                | orange | 122.8                | 1,541.46       |
| 382200196      | 9 X 2 X 18                   | 32.2                | orange | 138.1                | 1,718.55       |
| 382200220      | 10 X 2 X 18                  | 33.3                | orange | 153.5                | 1,819.92       |
| 382200244      | 11 X 2 X 18                  | 33.3                | orange | 168.8                | 1,865.15       |
| 382200268      | 12 X 2 X 18                  | 34.6                | orange | 184.2                | 2,000.81       |
| 382200002      | 1 X 2 X 18                   | 13.6                | orange | 15.3                 | 373.69         |
| 382200026      | 2 X 2 X 18                   | 20.0                | orange | 30.7                 | 689.49         |
| 382200004      | 1 X 2 X 18                   | 13.6                | orange | 15.3                 | 373.69         |
| 382200028      | 2 X 2 X 18                   | 20.0                | orange | 30.7                 | 689.49         |
| 382200009      | 1 X 2 X 18                   | 13.0                | orange | 15.3                 | 259.3          |
| 382200033      | 2 X 2 X 18                   | 19.4                | orange | 30.7                 | 503.14         |
| 382200057      | 3 X 2 X 18                   | 20.5                | orange | 46.0                 | 583.71         |
| 382200081      | 4 X 2 X 18                   | 22.0                | orange | 61.4                 | 675.15         |
| 382200105      | 5 X 2 X 18                   | 24.2                | orange | 76.7                 | 820.66         |

| Article number | Number of pairs and AWG size | Outer diameter [mm] | Colour | Copper index (kg/km) | Weight (kg/km) |
|----------------|------------------------------|---------------------|--------|----------------------|----------------|
| 382200129      | 6 X 2 X 18                   | 26.2                | orange | 92.1                 | 936.5          |
| 382200153      | 7 X 2 X 18                   | 26.2                | orange | 107.4                | 981.72         |
| 382200177      | 8 X 2 X 18                   | 29.3                | orange | 122.8                | 1,185.91       |
| 382200201      | 9 X 2 X 18                   | 31.8                | orange | 138.1                | 1,317.56       |
| 382200225      | 10 X 2 X 18                  | 32.9                | orange | 153.5                | 1,405.73       |
| 382200249      | 11 X 2 X 18                  | 32.9                | orange | 168.8                | 1,450.96       |
| 382200273      | 12 X 2 X 18                  | 34.0                | orange | 184.2                | 1,559.16       |
| 382200010      | 1 X 2 X 18                   | 13.0                | orange | 15.3                 | 259.3          |
| 382200034      | 2 X 2 X 18                   | 19.4                | orange | 30.7                 | 503.14         |
| 382200058      | 3 X 2 X 18                   | 20.5                | orange | 46.0                 | 583.71         |
| 382200082      | 4 X 2 X 18                   | 22.0                | orange | 61.4                 | 675.15         |
| 382200106      | 5 X 2 X 18                   | 24.2                | orange | 76.7                 | 820.66         |
| 382200130      | 6 X 2 X 18                   | 26.2                | orange | 92.1                 | 936.5          |
| 382200154      | 7 X 2 X 18                   | 26.2                | orange | 107.4                | 981.72         |
| 382200178      | 8 X 2 X 18                   | 29.3                | orange | 122.8                | 1,185.91       |
| 382200202      | 9 X 2 X 18                   | 31.8                | orange | 138.1                | 1,317.56       |
| 382200226      | 10 X 2 X 18                  | 32.9                | orange | 153.5                | 1,405.73       |
| 382200250      | 11 X 2 X 18                  | 32.9                | orange | 168.8                | 1,450.96       |
| 382200274      | 12 X 2 X 18                  | 34.0                | orange | 184.2                | 1,559.16       |
| 382200003      | 1 X 2 X 18                   | 9.0                 | orange | 15.3                 | 123.41         |
| 382200027      | 2 X 2 X 18                   | 15.0                | orange | 30.7                 | 266.26         |
| 382200051      | 3 X 2 X 18                   | 15.9                | orange | 46.0                 | 325.75         |
| 382200075      | 4 X 2 X 18                   | 17.6                | orange | 61.4                 | 400.77         |
| 382200099      | 5 X 2 X 18                   | 19.6                | orange | 76.7                 | 509.03         |
| 382200123      | 6 X 2 X 18                   | 21.4                | orange | 92.1                 | 587.72         |
| 382200147      | 7 X 2 X 18                   | 21.4                | orange | 107.4                | 632.94         |
| 382200171      | 8 X 2 X 18                   | 24.3                | orange | 122.8                | 767.72         |
| 382200195      | 9 X 2 X 18                   | 26.6                | orange | 138.1                | 858.15         |
| 382200219      | 10 X 2 X 18                  | 27.9                | orange | 153.5                | 940.18         |
| 382200243      | 11 X 2 X 18                  | 27.9                | orange | 168.8                | 985.41         |
| 382200267      | 12 X 2 X 18                  | 28.8                | orange | 184.2                | 1,054.36       |

Unless specified otherwise, the shown product values are nominal values at room temperature. You can receive further values, such as tolerances, upon request if they available and have been released for publication.

Photographs are not to scale and do not represent detailed images of the respective products.