



**UNITRONIC® BUS FF-844 H1 PVC**  
FF-844 H1 installation cable with 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
- Characteristic impedance**  
100 ± 20 Ω At 31.25 kHz
- 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)
382200005	1 X 2 X 18	8.6	orange	15.3	90.29
382200029	2 X 2 X 18	14.7	orange	30.7	220.39
382200053	3 X 2 X 18	15.7	orange	46.0	277.98
382200077	4 X 2 X 18	17.4	orange	61.4	349.18
382200101	5 X 2 X 18	19.2	orange	76.7	423.06
382200125	6 X 2 X 18	21.0	orange	92.1	489.75
382200149	7 X 2 X 18	21.0	orange	107.4	538.35
382200173	8 X 2 X 18	23.8	orange	122.8	625.54
382200197	9 X 2 X 18	26.0	orange	138.1	708.92
382200221	10 X 2 X 18	27.4	orange	153.5	785.19
382200245	11 X 2 X 18	27.4	orange	168.8	833.79
382200269	12 X 2 X 18	28.3	orange	184.2	892.85
382200289	13 X 2 X 18	30.0	orange	199.5	974.62
382200297	14 X 2 X 18	30.0	orange	214.9	1,023.21
382200305	15 X 2 X 18	31.7	orange	230.2	1,092.47
382200313	16 X 2 X 18	31.7	orange	245.6	1,141.07
382200321	17 X 2 X 18	33.6	orange	261.0	1,227.95
382200329	18 X 2 X 18	33.6	orange	276.3	1,276.54
382200337	19 X 2 X 18	33.6	orange	291.7	1,325.13
382200345	20 X 2 X 18	35.8	orange	307.0	1,417.87
382200353	21 X 2 X 18	35.8	orange	322.4	1,466.46
382200361	22 X 2 X 18	37.8	orange	337.7	1,541.48
382200369	23 X 2 X 18	37.8	orange	353.1	1,590.07
382200377	24 X 2 X 18	39.9	orange	368.4	1,684.69
382200385	25 X 2 X 18	39.9	orange	383.8	1,733.29
382200006	1 X 2 X 18	13.2	orange	15.3	330.01
382200030	2 X 2 X 18	19.7	orange	30.7	634.92
382200054	3 X 2 X 18	20.7	orange	46.0	767.97
382200078	4 X 2 X 18	22.2	orange	61.4	873.92
382200102	5 X 2 X 18	24.2	orange	76.7	1,012.14
382200126	6 X 2 X 18	26.2	orange	92.1	1,148.39
382200150	7 X 2 X 18	26.2	orange	107.4	1,196.98
382200174	8 X 2 X 18	29.2	orange	122.8	1,382.8
382200198	9 X 2 X 18	31.6	orange	138.1	1,549.36
382200222	10 X 2 X 18	32.8	orange	153.5	1,648.25
382200246	11 X 2 X 18	32.8	orange	168.8	1,696.85
382200270	12 X 2 X 18	33.7	orange	184.2	1,783.17
382200290	13 X 2 X 18	35.6	orange	199.5	1,935.08
382200298	14 X 2 X 18	35.6	orange	214.9	1,983.67
382200306	15 X 2 X 18	37.5	orange	230.2	2,128.19
382200314	16 X 2 X 18	37.5	orange	245.6	2,176.79

Article number	Number of pairs and AWG size	Outer diameter [mm]	Colour	Copper index (kg/km)	Weight (kg/km)
382200322	17 X 2 X 18	39.4	orange	261.0	2,319.99
382200330	18 X 2 X 18	39.4	orange	276.3	2,368.58
382200338	19 X 2 X 18	39.4	orange	291.7	2,417.18
382200346	20 X 2 X 18	41.6	orange	307.0	2,578.85
382200354	21 X 2 X 18	41.6	orange	322.4	2,627.44
382200362	22 X 2 X 18	44.0	orange	337.7	2,814.41
382200370	23 X 2 X 18	44.0	orange	353.1	2,863
382200378	24 X 2 X 18	46.3	orange	368.4	3,049.93
382200386	25 X 2 X 18	46.3	orange	383.8	3,098.52
382200007	1 X 2 X 18	8.6	orange	15.3	90.29
382200031	2 X 2 X 18	14.7	orange	30.7	220.39
382200055	3 X 2 X 18	15.7	orange	46.0	277.98
382200079	4 X 2 X 18	17.4	orange	61.4	349.18
382200103	5 X 2 X 18	19.2	orange	76.7	423.06
382200127	6 X 2 X 18	21.0	orange	92.1	489.75
382200151	7 X 2 X 18	21.0	orange	107.4	538.35
382200175	8 X 2 X 18	23.8	orange	122.8	625.54
382200199	9 X 2 X 18	26.0	orange	138.1	708.92
382200223	10 X 2 X 18	27.4	orange	153.5	785.19
382200247	11 X 2 X 18	27.4	orange	168.8	833.79
382200271	12 X 2 X 18	28.3	orange	184.2	892.85
382200291	13 X 2 X 18	30.0	orange	199.5	974.62
382200299	14 X 2 X 18	30.0	orange	214.9	1,023.21
382200307	15 X 2 X 18	31.7	orange	230.2	1,092.47
382200315	16 X 2 X 18	31.7	orange	245.6	1,141.07
382200323	17 X 2 X 18	33.6	orange	261.0	1,227.95
382200331	18 X 2 X 18	33.6	orange	276.3	1,276.54
382200339	19 X 2 X 18	33.6	orange	291.7	1,325.13
382200347	20 X 2 X 18	35.8	orange	307.0	1,417.87
382200355	21 X 2 X 18	35.8	orange	322.4	1,466.46
382200363	22 X 2 X 18	37.8	orange	337.7	1,541.48
382200371	23 X 2 X 18	37.8	orange	353.1	1,590.07
382200379	24 X 2 X 18	39.9	orange	368.4	1,684.69
382200387	25 X 2 X 18	39.9	orange	383.8	1,733.29
382200008	1 X 2 X 18	13.2	orange	15.3	330.01
382200032	2 X 2 X 18	19.7	orange	30.7	634.92
382200056	3 X 2 X 18	20.7	orange	46.0	767.97
382200080	4 X 2 X 18	22.2	orange	61.4	873.92
382200104	5 X 2 X 18	24.2	orange	76.7	1,012.14
382200128	6 X 2 X 18	26.2	orange	92.1	1,148.39
382200152	7 X 2 X 18	26.2	orange	107.4	1,196.98
382200176	8 X 2 X 18	29.2	orange	122.8	1,382.8
382200200	9 X 2 X 18	31.6	orange	138.1	1,549.36
382200224	10 X 2 X 18	32.8	orange	153.5	1,648.25
382200248	11 X 2 X 18	32.8	orange	168.8	1,696.85
382200272	12 X 2 X 18	33.7	orange	184.2	1,783.17
382200292	13 X 2 X 18	35.6	orange	199.5	1,935.08
382200300	14 X 2 X 18	35.6	orange	214.9	1,983.67
382200308	15 X 2 X 18	37.5	orange	230.2	2,128.19
382200316	16 X 2 X 18	37.5	orange	245.6	2,176.79
382200324	17 X 2 X 18	39.4	orange	261.0	2,319.99
382200332	18 X 2 X 18	39.4	orange	276.3	2,368.58
382200340	19 X 2 X 18	39.4	orange	291.7	2,417.18
382200348	20 X 2 X 18	41.6	orange	307.0	2,578.85
382200356	21 X 2 X 18	41.6	orange	322.4	2,627.44
382200364	22 X 2 X 18	44.0	orange	337.7	2,814.41
382200372	23 X 2 X 18	44.0	orange	353.1	2,863
382200380	24 X 2 X 18	46.3	orange	368.4	3,049.93
382200388	25 X 2 X 18	46.3	orange	383.8	3,098.52
382200011	1 X 2 X 18	12.6	orange	15.3	222.32
382200035	2 X 2 X 18	18.9	orange	30.7	443.06
382200059	3 X 2 X 18	20.3	orange	46.0	532.69
382200083	4 X 2 X 18	21.8	orange	61.4	620.19
382200107	5 X 2 X 18	23.8	orange	76.7	728.52
382200131	6 X 2 X 18	25.8	orange	92.1	832
382200155	7 X 2 X 18	25.8	orange	107.4	880.59
382200179	8 X 2 X 18	28.8	orange	122.8	1,027.9
382200203	9 X 2 X 18	31.2	orange	138.1	1,158.18
382200227	10 X 2 X 18	32.4	orange	153.5	1,249.93
382200251	11 X 2 X 18	32.4	orange	168.8	1,298.53
382200275	12 X 2 X 18	33.3	orange	184.2	1,370.67
382200012	1 X 2 X 18	12.6	orange	15.3	222.32
382200036	2 X 2 X 18	18.9	orange	30.7	443.06
382200060	3 X 2 X 18	20.3	orange	46.0	532.69
382200084	4 X 2 X 18	21.8	orange	61.4	620.19
382200108	5 X 2 X 18	23.8	orange	76.7	728.52
382200132	6 X 2 X 18	25.8	orange	92.1	832
382200156	7 X 2 X 18	25.8	orange	107.4	880.59
382200180	8 X 2 X 18	28.8	orange	122.8	1,027.9
382200204	9 X 2 X 18	31.2	orange	138.1	1,158.18
382200228	10 X 2 X 18	32.4	orange	153.5	1,249.93
382200252	11 X 2 X 18	32.4	orange	168.8	1,298.53
382200276	12 X 2 X 18	33.3	orange	184.2	1,370.67

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.