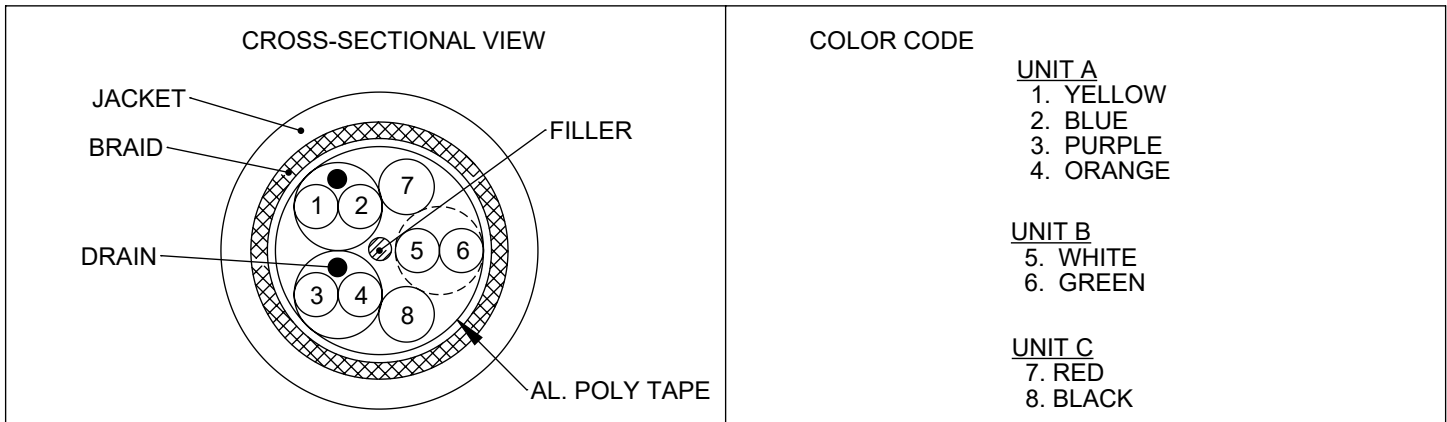



USB BULK CABLE SPECIFICATION



DESCRIPTION: UL STYLE 20276, USB BULK 3.0 OUTDOOR 30/24 PVC BLK

| ITEM             |  | UNIT A                               | UNIT B                      | UNIT C                      |
|------------------|--|--------------------------------------|-----------------------------|-----------------------------|
| CONSTRUCTION AWG |  | 30 AWG                               | 30 AWG                      | 24 AWG                      |
| CONDUCTORS       | CONDUCTOR SIZE, IN [MM]  | 7/.004 ± .0003 [.10 ± .008]          | 7/.004 ± .0003 [.10 ± .008] | 7/.008 ± .0003 [.20 ± .008] |
|                  | MATERIAL   | TINNED COPPER                        | TINNED COPPER               | TINNED COPPER               |
|                  | DIAMETER, IN [MM]  | .012 [.30]                           | .012 [.30]                  | .024 [.60]                  |
| INSULATION       | MATERIAL   | FORM-PE+SKIN                         | HD-PE                       | SR-PVC                      |
|                  | AVG. THICK, IN [MM]  | .008 [.20]                           | .005 [.13]                  | .01 [.25]                   |
|                  | DIAMETER, IN [MM]  | .028 ± .003 [.70 ± .08]              | .022 ± .003 [.55 ± .08]     | .043 ± .003 [1.10 ± .08]    |
| DRAIN            | MATERIAL   | TINNED COPPER                        | -                           | -                           |
|                  | CONDUCTOR SIZE, IN [MM]  | 7/.004 ± .0003 [.10 ± .008]          | -                           | -                           |
| INNER TAPE       | MATERIAL   | AL. POLY + HOT-PET                   | -                           | -                           |
|                  | OVERLAP  | 25% MIN.                             | -                           | -                           |
| FILLER           | MATERIAL   | COTTON                               |                             |                             |
| OUTER TAPE       | MATERIAL   | AL. POLY TAPE                        |                             |                             |
|                  | OVERLAP  | 25% MIN.                             |                             |                             |
| BRAID SHIELD     | MATERIAL   | TINNED COPPER                        |                             |                             |
|                  | SIZE   | 16*6/.004 ± .0003 [.10 ± .008] (65%) |                             |                             |
| JACKET           | MATERIAL   | PVC (UV RESISTANCE)                  |                             |                             |
|                  | AVG. THICK, IN [MM]  | .020 [.50] REF.                      |                             |                             |
|                  | DIAMETER, IN [MM]  | .217 ± .008 [5.5 ± .20]              |                             |                             |
|                  | COLOR  | BLACK                                |                             |                             |
| MARKING          | USB3.0 Cable (UL FILE NUMBER)  AWM 20276 80°C 30V VW-1 (UV) |                                      |                             |                             |

USB BULK CABLE SPECIFICATION

DESCRIPTION: UL STYLE 20276, USB BULK 3.0 OUTDOOR 30/24 PVC BLK

**ELECTRICAL CHARACTERISTICS**

1. VOLTAGE RATING: 30V
2. CONDUCTOR RESISTANCE: 381 Ω/KM MAX. AT 20°C(30AWG); 94.2 Ω/KM MAX. AT 20°C(24AWG)
3. INSULATION RESISTANCE: 100 MΩ-KM MIN. AT 20°C(PE); 10 MΩ-KM MIN. AT 20°C(PVC)
4. DIELECTRICAL STRENGTH: 500VAC/1 MINUTE

**USB2.0 UNSHIELD TWIST PAIR**

5. DIFFERENTIAL IMPEDANCE: 90Ω±15%
6. DELAY: 5.2 ns/M
7. DELAY SKEW: 100ps
8. ATTENUATION:

| FREQ.(MHZ)      | .064 | .256 | .512 | .772 | 1   | 4   | 8   | 12  | 24  | 48   | 96   | 200 | 400 |
|-----------------|------|------|------|------|-----|-----|-----|-----|-----|------|------|-----|-----|
| <b>dB/cable</b> | .08  | .11  | .13  | .15  | .20 | .39 | .57 | .67 | .95 | 1.35 | 1.90 | 3.2 | 5.8 |

**USB3.0 SHIELD TWIST PAIR**

9. DIFFERENTIAL IMPEDANCE: 90±7Ω
10. INTRA-PAIR SKEW: 15ps/M
11. ATTENUATION:

| FREQ.(MHZ)   | 100 | 1250 | 2500 | 7500 |
|--------------|-----|------|------|------|
| <b>dB/2M</b> | 1.5 | 5.0  | 7.5  | 25   |

12. DIFFERENTIAL TO COMMON MODE: 20 dB/cable @0.1~7.5GHz

**PHYSICAL CHARACTERISTICS**

1. STORAGE TEMPERATURE: -20°C~+80°C
2. OPERATING TEMPERATURE: -20°C~+80°C (Static) , -10°C~+60°C (Dynamic)
3. MIN BEND RADIUS: 15X OD
4. FLAME TEST: UL VW-1
5. CABLE TO BE RoHS COMPLIANT.

**PACKAGE**

| MODEL NO.         | LENGTH     | PACKAGING         |
|-------------------|------------|-------------------|
| BU30-3024BK-100F  | 100 FEET   | POLY BAG          |
| BU30-3024BK-500F  | 500 FEET   | POLY BAG or SPOOL |
| BU30-3024BK-1000F | 1,000 FEET | POLY BAG or SPOOL |