

## 1. Scope

This specification covers the construction and the electrical properties of 11Core Multi Cable with Braid Shield. USB3.0 3 Meter version

## 2. Construction and material

| Item                     |                  | Unit   | Specified Value           |                    |                    |
|--------------------------|------------------|--------|---------------------------|--------------------|--------------------|
|                          |                  |        | 30AWG Coaxial             | 30AWG Wire         | 28AWG Wire         |
| Number of cores          |                  | -      | 6C (A)                    | 2C (B)             | 3 (C)              |
| Inner Conductor          | Material         | -      | Silver plated Copper wire | Tinned copper      | Tinned copper      |
|                          | Stranding        | No./mm | 7/0.105                   | 19/0.06+130DKevlar | 29/0.06+130DKevlar |
|                          | Diameter(Nom.)   | mm     | 0.315                     | 0.300              | 0.36               |
| Insulation               | Material         | -      | FEP                       | FEP                | FEP                |
|                          | Thick.(Nom.)     | mm     | 0.242                     | 0.065              | 0.06               |
|                          | Diameter         | mm     | 0.82<br>(±0.02)           | 0.430 (±0.02)      | 0.48 (±0.05)       |
|                          | Color            | -      | Natural                   | See Fig.3          | Red                |
| Outer conductor          | Material         | -      | Tinned copper wire        |                    |                    |
|                          | Thicknes (Nom)   | mm     | 0.05                      |                    |                    |
|                          | Dia.(approx.)    | mm     | 0.920                     |                    |                    |
| Shield Tape              | Material         | -      | CUJ-PET                   |                    |                    |
|                          | Thick.(Nom.)     | mm     | 0.012                     |                    |                    |
|                          | Diameter         | mm     | 0.944                     |                    |                    |
| Sheath Tape              | Material         | -      | PET-A                     |                    |                    |
|                          | Thick.(Nom.)     | mm     | 0.018                     |                    |                    |
|                          | Diameter         | mm     | 0.980                     |                    |                    |
|                          | Color            | -      | See Fig.3                 |                    |                    |
| Assembly Diameter (Nom.) |                  |        | 2.91                      |                    |                    |
| Tape                     | Material         | -      | Graphene                  |                    |                    |
|                          | Thick.(Nom.)     | mm     | 0.05                      |                    |                    |
|                          | Diameter         | mm     | 3.01                      |                    |                    |
| Shield                   | Material         | mm     | Tinned copper wire        |                    |                    |
|                          | Strand           | mm     | 16/16/0.05                |                    |                    |
|                          | Coverage (Min)   | %      | 88                        |                    |                    |
|                          | Dia.(approx.)    | -      | 3.21                      |                    |                    |
| Sheath                   | Material         | -      | PVC Grey                  |                    |                    |
|                          | Thickness (Nom.) | mm     | 0.40                      |                    |                    |
|                          | Dia.(approx.)    | mm     | 4.1±0.15                  |                    |                    |

## 3. Electrical Properties

| Item                | Unit      | A Core<br>AWG30*8C | B Core<br>AWG30*2C | C core<br>AWG28*3C |
|---------------------|-----------|--------------------|--------------------|--------------------|
| Conductor@20°C)     | Ω/km      | MAX.377            | MAX.377            | MAX.259            |
| Insulation(@20°C)   | MΩ·km     | MIN.1000           | MIN.1000           | MIN.1000           |
| Hipot               | V(AC)/min | 500                | 500                | 500                |
| Char. imped. (@1ns) | Ω         | 90±(2C)            | ----               |                    |
| SKEW/时间差※           | ps/m      | Max.10             |                    |                    |
| 衰减 ※<br>(GHz)       | @2.5GHz   | Max.3.1            |                    |                    |
|                     | @5.0GHz   | Max.4.8            |                    |                    |
|                     | @10GHz    | Max.7.1            |                    |                    |

#### 4. Packing

- (1) Unit length(Min) : 200m(Min.10)
- (2) Package : Coiled into carton box

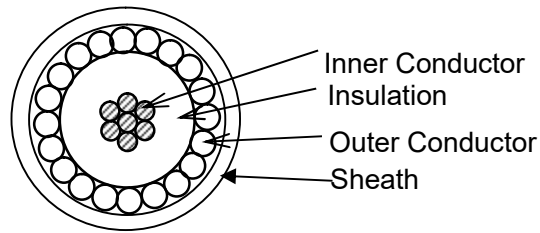
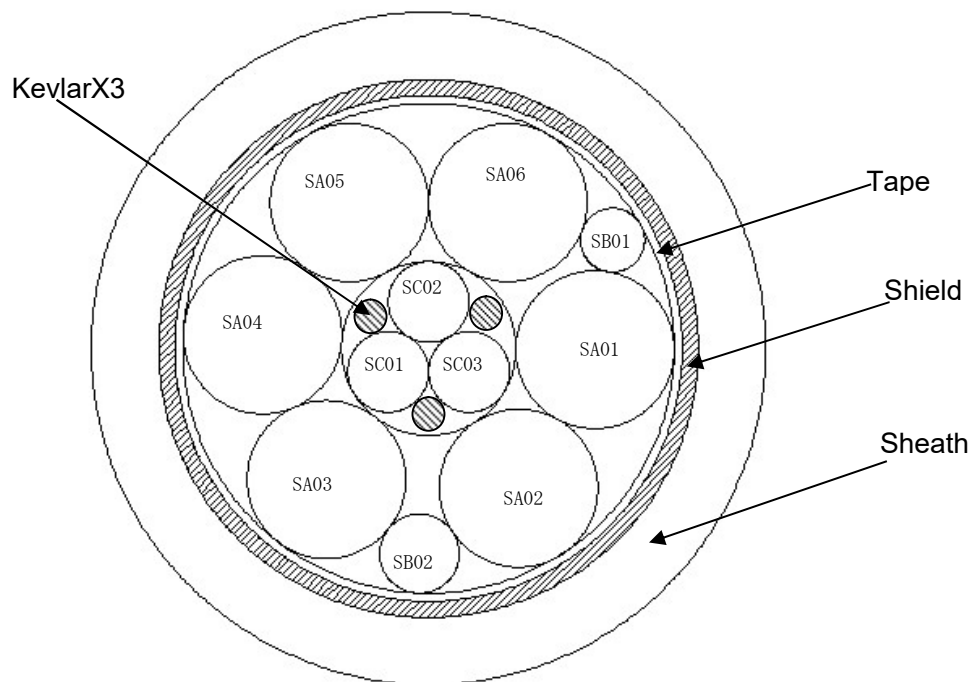


Fig.1 Cross section view of cable (30AWG Coaxial)



| Core | Color  | Core | Color  |
|------|--------|------|--------|
| SA01 | Black  | SC01 | Red    |
| SA02 | White  | SC02 | Red    |
| SA03 | Yellow | SC03 | Red    |
| SA04 | Brown  | SB01 | Gray   |
| SA05 | Green  | SB02 | Yellow |
| SA06 | Gray   |      |        |

Fig.2 Cross section view of cable