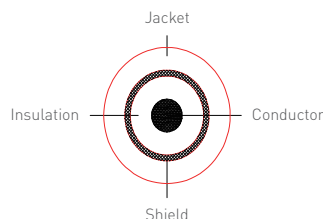
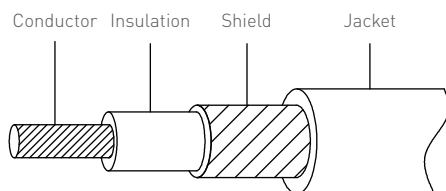


## LVDS - Micro Coaxial Cable (MCX Cable)

- Features:
1. Small diameter (#36~48AWG) and light weight for easy routing.
  2. Excellent heat resistance and electrical properties with fluorocarbon polymer insulation (PFA and FEP).
  3. Excellent mechanical strength and flexible performance with copper alloy conductors.
  4. Excellent EMI Shielding and high display definition.
- Application:  
Highly adopt by security, medical equipment, industrial automation and others require stable precision.



## MCX (Micro coaxial)



### Micro coaxial Cable

|                   | ITEM | Inner conductor |           |          | Insulation |          | Outer conductor |       | Jacket   |          | Cap. at 1kHz (pf/m) | Impedance at 10MHz (ohm) | Max. cond resistance at 20°C ohm/km |
|-------------------|------|-----------------|-----------|----------|------------|----------|-----------------|-------|----------|----------|---------------------|--------------------------|-------------------------------------|
|                   |      | SIZE (AWG)      | Steanding | Material | Material   | Diameter | Material        | Thick | Material | Diameter |                     |                          |                                     |
| MCX coaxial Cable | 1    | 36              | 7/0.05    | TA       | PFA or FEP | 0.38     | TH              | 0.032 | PFA      | 0.54     | 110                 | 50                       | 1,569                               |
|                   | 2    | 38              | 7/0.04    | GA-SN    | PFA or FEP | 0.3      | TH              | 0.025 | PFA      | 0.44     | 110                 | 50                       | 3,300                               |
|                   | 3    | 40              | 7/0.03    | GA-SN    | PFA or FEP | 0.23     | TA-SN           | 0.025 | PFA      | 0.38     | 110                 | 50                       | 5,000                               |
|                   | 4    | 40              | 7/0.03    | GA-SN    | PFA or FEP | 0.23     | TA-SN           | 0.025 | PET      | 0.32     | 110                 | 50                       | 5,000                               |
|                   | 5    | 42              | 7/0.025   | GA-SN    | PFA or FEP | 0.175    | TA-SN           | 0.025 | PFA      | 0.31     | 110                 | 50                       | 7,500                               |
|                   | 6    | 42              | 7/0.025   | GA-SN    | PFA or FEP | 0.175    | TA-SN           | 0.025 | PET      | 0.29     | 110                 | 50                       | 7,500                               |
|                   | 7    | 44              | 7/0.02    | GA-SN    | PFA or FEP | 0.156    | GA-SN           | 0.02  | PFA      | 0.26     | 110                 | 50                       | 11,500                              |
|                   | 8    | 46              | 7/0.016   | GA-SN    | PFA or FEP | 0.115    | GA-SN           | 0.02  | PFA      | 0.21     | 115                 | 50                       | 17,000                              |
|                   | 9    | 48              | 7/0.013   | GA-SN    | PFA or FEP | 0.093    | GA-SN           | 0.016 | PFA      | 0.16     | 120                 | 50                       | 23,000                              |

### Ultrasound Cable Characteristics

| Micro-coaxial Cable |  | Capaciance (pf/m) |    |
|---------------------|--|-------------------|----|
| Core X Gauge        |  |                   |    |
| 135 X 40 AWG        |  | 110               | 60 |
| 135 X 42 AWG        |  | 110               | 60 |
| 210 X 40 AWG        |  | 110               | 60 |
| 210 X 42 AWG        |  | 110               | 60 |
| 68 X 36 AWG         |  | 110               |    |



### Micro - coaxial Cable Electrical Characteristics

| Micro-coaxial Cable |               | R <sub>DC</sub> (Ω/m) | C (pF/m) | L (nH/m) | Z <sub>0</sub> (@ 5MHz) |
|---------------------|---------------|-----------------------|----------|----------|-------------------------|
| Manufacturer        | Core X Gauge  |                       |          |          |                         |
| Golden Bridge       | 135 X 40 AWG  | 4.18                  | 106.6    | 323.6    | 57.27Ω ∠-11.2°          |
| Golden Bridge       | 135 X 42 AWG  | 5.36                  | 98       | 304      | 50.67Ω ∠-4.6°           |
| Hitachi Cable       | 134 X 40 AWG  | 4.52                  | 110.9    | 288.8    | 53.94Ω ∠-13.2°          |
| Hitachi Cable       | 68 X 36 AWG   | 1.28                  | 115.9    | 294.3    | 50.67Ω ∠-4.1°           |
| Hitachi Cable       | 84 X 38 AWG   | 2.38                  | 112.4    | 287.3    | 51.42Ω ∠-7.4°           |
| Nissei              | 132 X 40 AWG  | 4.43                  | 105.8    | 286.9    | 54.99Ω ∠-13.1°          |
| Axon                | 1149 X 40 AWG | 4.25                  | 107.4    | 321.9    | 54.15Ω ∠-11.4°          |