

# 50Ω Coaxial Cable for General Communications

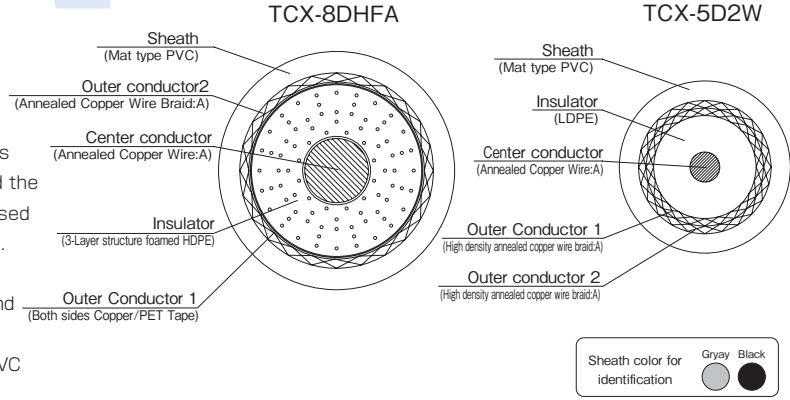
## Applications

The most comfortable 50Ω type Coaxial Cable for general communications.

## Features

- For TCX-2W series insulator, TACHII has employed Low Loss LDPE having beneficial attenuation property, and minimized the influence from outside noise without limit by doubly processed High Density Annealed Copper Wire Braid (more than 94%).
- TACHII has materialized drastically low attenuation by newly employing 3-layer structure high foamed HDPE for insulator, and Copper PET tape for shield tape in TCX-8DHFA.
- TACHII has employed environment-friendly nonleaded mat type PVC for sheath material. (ECO type products are also available.)

## Configuration



## Construction Properties

※ TCX-8DHFA  
17.6以上 (1M~2GHz)  
15.6以上 (2G~5.2GHz)

| Model                | Center conductor   |         | Insulator       | Outer conductor1 (Braid)    |            | Outer conductor2 (Braid)    |           | Finished cable |                        | Electrical properties     |                       |                                  |                        |
|----------------------|--------------------|---------|-----------------|-----------------------------|------------|-----------------------------|-----------|----------------|------------------------|---------------------------|-----------------------|----------------------------------|------------------------|
|                      | Structure Wires/mm | O.D. mm |                 | Structure Spindles/Wires/mm | Density %  | Structure Spindles/Wires/mm | Density % | O.D. mm        | Weight approx. kg/100m | Conductor resistance Ω/km | Capacitance pF/m 1kHz | Characteristic impedance Ω 10MHz | Return loss dB 1M~3GHz |
| TCX-3D2W             | 7/0.32A            | 3.0     | 24/5/0.14A      | 98                          | 24/5/0.14A | 94                          | 6.4       | 7.2            | 33.3 max.              | 100                       | 50±2                  | 20.9 min.                        |                        |
| TCX-5D2W             | 1/1.40A            | 4.8     | 24/7/0.14A      | 95                          | 24/7/0.14A | 95                          | 8.0       | 11.2           | 11.7 max.              |                           |                       |                                  |                        |
| TCX-8D2W             | 7/0.80A            | 7.8     | 24/8/0.18A      | 97                          | 24/8/0.18A | 97                          | 12.4      | 26.1           | 5.13 max.              | 82                        | ※                     |                                  |                        |
| <b>NEW</b> TCX-8DHFA | 1/3.00A            | 8.1     | Copper/PET Tape | 100                         | 24/5/0.18A | 73                          | 11.1      | 16.9           | 2.46 max.              |                           |                       |                                  |                        |

# Triaxial Cable for Broadcasting Cameras

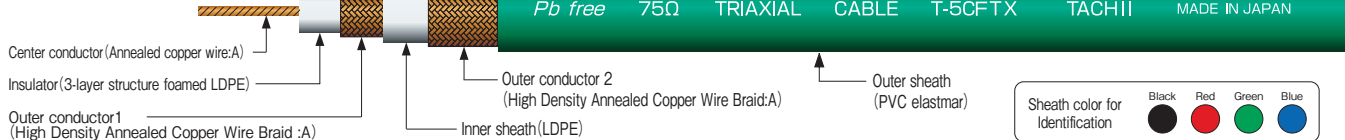
## Applications

This triaxial cable is the best for usage in HD digital triaxial camera transmission system. This cable can be also utilized as power source for analog camera, vision and multiple transmission of incoming signal.

## Features

- In view of cable management, TACHII has employed 3-layer structure foamed LDPE for insulator in all series, designed in order not to damage flexibility.
- TACHII has employed High Density Annealed Copper Wire Braide (more than 90%) for outer conductor to minimize electrical resistance.
- For outer sheath, TACHII has employed PVC elastmer having beneficial effect of abrasion quality, and blended UV absorber to prevent deterioration in outdoor use.

## Configuration



## Construction Properties

| Model                     | Center conductor   |         | Insulator   | Outer conductor1 (Braid)    |           | Inner sheath | Outer conductor2 (Braid) |                             | Finished cable |           | Electrical properties  |                           |                       |                                  |
|---------------------------|--------------------|---------|-------------|-----------------------------|-----------|--------------|--------------------------|-----------------------------|----------------|-----------|------------------------|---------------------------|-----------------------|----------------------------------|
|                           | Structure Wires/mm | O.D. mm |             | Structure Spindles/Wires/mm | Density % |              | O.D. mm                  | Structure Spindles/Wires/mm | Density %      | O.D. mm   | Weight approx. kg/100m | Conductor resistance Ω/km | Capacitance pF/m 1kHz | Characteristic impedance Ω 10MHz |
| TCX-4CFTX                 | 1/0.80A            | 3.7     | 16/7/0.14A  | 93                          | 5.55      | 24/7/0.14A   | 95                       | 9.14                        | 11.4           | 35.2 max. | 56                     | 75±3                      | 20.9 max.             |                                  |
| TCX-5CFTX                 | 7/0.36A            | 4.8     | 24/7/0.14A  | 96                          | 6.55      | 24/8/0.14A   | 91                       | 8.9                         | 11.2           | 26.3 max. |                        |                           |                       |                                  |
| <b>NEW</b> TCX-5CFTX(SLD) | 1/1.00A            | 4.8     | 24/7/0.14A  | 96                          | 6.55      | 24/8/0.14A   | 91                       | 8.9                         | 11.2           | 22.2 max. | 55                     |                           |                       |                                  |
| TCX-6.5CFTX               | 1/1.40A            | 6.4     | 24/8/0.14A  | 92                          | 8.45      | 24/10/0.14A  | 95                       | 11.2                        | 16.1           | 11.7 max. |                        |                           |                       |                                  |
| <b>NEW</b> TCX-8CFTX      | 7/0.60A            | 7.92    | 24/9/0.16A  | 95                          | 9.92      | 24/9/0.18A   | 95                       | 13.2                        | 23.0           | 9.19 max. | 55.5                   |                           |                       |                                  |
| <b>NEW</b> TCX-10CFTX     | 7/0.74A            | 9.6     | 24/10/0.18A | 96                          | 11.7      | 24/10/0.18A  | 90                       | 14.5                        | 27.0           | 6.01 max. |                        |                           |                       |                                  |

## Nominal Attenuation

※Nominal value means the central figure measured by TACHII.

| Model                     | Nominal Attenuation Value (dB/100m) |        |        |        |        |         |         |         |         |         |         |         |         |         |          |          |          |          |          |          |          |   |
|---------------------------|-------------------------------------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|---|
|                           | 10 MHz                              | 30 MHz | 72 MHz | 88 MHz | 90 MHz | 135 MHz | 180 MHz | 220 MHz | 270 MHz | 400 MHz | 440 MHz | 750 MHz | 770 MHz | 900 MHz | 1000 MHz | 1200 MHz | 1500 MHz | 1900 MHz | 2400 MHz | 3000 MHz | 5200 MHz |   |
| TCX-3D2W                  | 4.3                                 | 7.4    | 11.6   | 12.9   | 13.1   | 16.2    | 18.8    | 20.9    | 23.4    | —       | 30.4    | 40.6    | 41.1    | —       | 47.5     | —        | —        | —        | —        | —        | —        | — |
| TCX-5D2W                  | 2.5                                 | 4.3    | 6.9    | 7.6    | 7.7    | 9.6     | 11.2    | 12.4    | 14.0    | —       | 18.2    | 24.4    | 24.7    | —       | 28.7     | —        | —        | —        | —        | —        | —        | — |
| TCX-8D2W                  | 2.0                                 | 3.3    | 5.3    | 5.8    | 5.9    | 7.4     | 8.6     | 9.6     | 10.8    | —       | 14.1    | 15.2    | 19.1    | —       | 22.6     | —        | —        | —        | —        | —        | —        | — |
| <b>NEW</b> TCX-8DHFA      | —                                   | —      | —      | —      | —      | 4.2     | —       | —       | —       | 7.2     | —       | —       | —       | 11.0    | —        | 13.1     | 14.7     | 16.7     | 19.1     | 21.8     | 31.3     |   |
| TCX-4CFTX                 | 3.2                                 | 4.9    | 7.7    | 8.5    | 8.6    | 10.6    | 12.3    | 13.7    | 15.2    | —       | 19.7    | 23.8    | —       | —       | 30.6     | —        | —        | —        | —        | —        | —        | — |
| TCX-5CFTX                 | 2.5                                 | 4.2    | 6.6    | 7.3    | 7.4    | 9.1     | 10.6    | 11.8    | 13.1    | —       | 17.0    | 22.6    | —       | —       | 26.4     | —        | —        | —        | —        | —        | —        | — |
| <b>NEW</b> TCX-5CFTX(SLD) | 2.3                                 | 3.8    | 5.9    | 6.6    | 6.7    | 8.2     | 9.5     | 10.6    | 11.8    | —       | 15.3    | 20.4    | —       | —       | 23.9     | —        | —        | —        | —        | —        | —        | — |
| TCX-6.5CFTX               | 1.7                                 | 2.8    | 4.4    | 4.8    | 4.9    | 6.1     | 7.1     | 7.9     | 8.8     | —       | 11.4    | 15.3    | —       | —       | 18.0     | —        | —        | —        | —        | —        | —        | — |
| <b>NEW</b> TCX-8CFTX      | 1.8                                 | 2.6    | 4.0    | 4.4    | 4.5    | 5.5     | —       | —       | 7.9     | —       | 10.3    | 13.9    | —       | —       | 16.3     | —        | —        | —        | —        | —        | —        | — |
| <b>NEW</b> TCX-10CFTX     | 1.6                                 | 2.2    | 3.5    | 3.8    | 3.9    | 4.9     | —       | —       | 7.0     | —       | 9.2     | 12.5    | —       | —       | 14.8     | —        | —        | —        | —        | —        | —        | — |