Flexible Coaxial Cable for Digital FPU

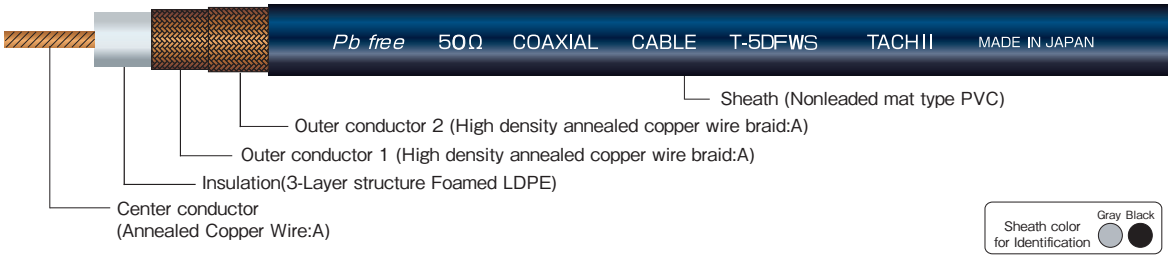
Application

- For transmission of FPU systems at relay sites.
- For general communication of 1 Ghz or less.

Features

- TCX-5DFWS has our original combined stranded conductor.
- Excellent operatability and flexibility.
- TCX-5DFW can transmit more than 450m which is the longest in 5D class.
  TCX-5DFWS can transmit more than 400m.
- We also produce cable harness with Type N connector. Ask our sales staff for details.

Configuration



Construction/Properties

Model	Center conductor	conductor Insulation	Outer conductor 1 (Braid)		Outer conductor 2 (Braid)		Finished cable		Electrical specification			
	Structure Wires/mm	OD mm	Structure Spindles/Wires/mm	Density %	Structure Spindles/Wires/mm	Density %	OD mm	Weight k g／100 m	Conductor resistance Ω／k m	Capacitance p F／m 1kHz	Characteristic impedance Ω 10MHz	Return loss d B 1MHz～1GHz
TCX-5DFW	1/1.80A	5.0	24/7/0.14A	94	24/8/0.14A	96	8.2	11.9	7.10max.	84	50 ± 2	20.9 min.
TCX-5DFWS	7/0.60A+0.203A × 6							11.5	8.38max.	85.5		

Nominal Attenuation

Model	Nominal attenuation value (d B／100 m)											
	10 MHz	30 MHz	72 MHz	88 MHz	90 MHz	130 MHz	180 MHz	220 MHz	270 MHz	440 MHz	750 MHz	770 MHz
TCX-5DFW	2.6	3.7	5.9	6.6	6.6	8.2	9.5	10.6	11.9	15.4	20.6	20.9
TCX-5DFWS	3.0	4.3	6.7	7.4	7.5	9.1	10.8	12.0	13.4	17.4	23.4	23.7

※ Standard value is our measurement representative value. ※ IF signal is transmitted at 130MHz.

Note

Original Combined Stranded Conductor

Tatsuta Tachii adopted our original combined stranded conductor designed for SDI signal to TCX-5DFWS.
The conductor size is 10% wider than general conductor and it lowers the loop resistance.
This conductor achieves the super low loss characteristics.