

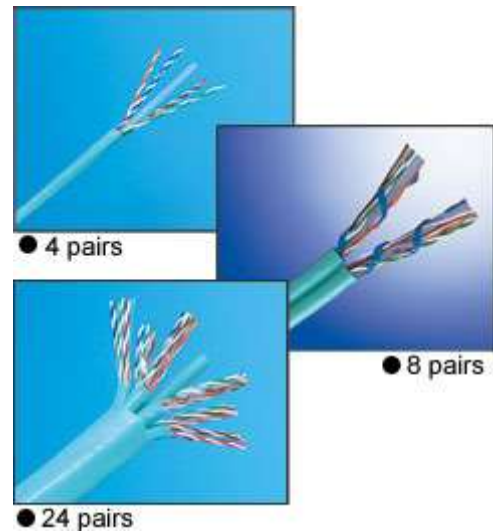
Products

Category 6 cable (single wire conductor) DTI-C6X series

Floor type (horizontally laid) cable, multi-pair vertically laid cable

Applications

High-speed LAN cable that supports Gigabit Ethernet



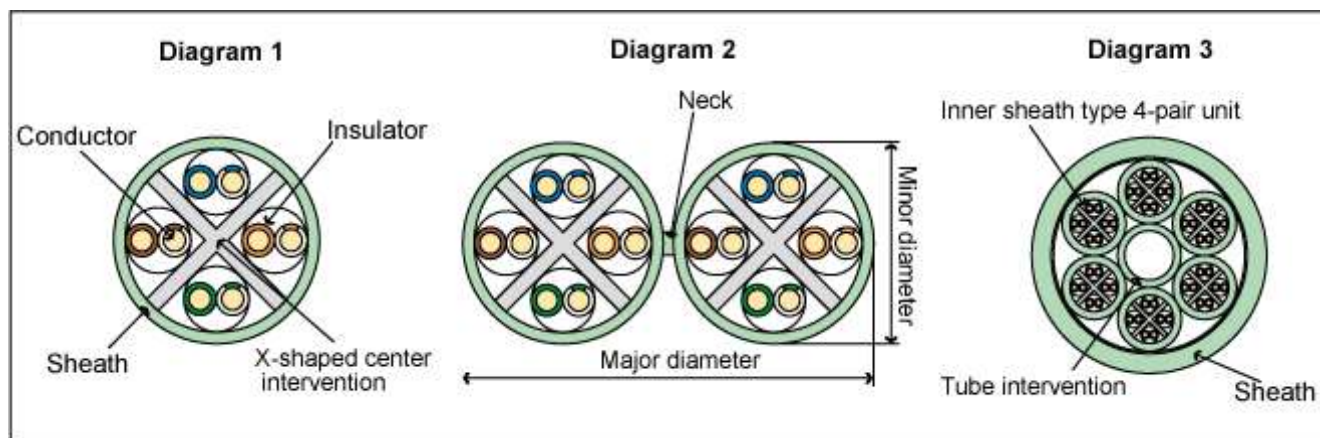
Features

- This cable supports Gigabit Ethernet (100BASE-T).
- This cable has adequate performance which satisfies the TIA/EIA-568-B.2-1 category 6 standard, and permits high quality data transmission.
- An X-shaped intervention is used at the center of the cable, resulting in a more stable construction and also greatly improving the transmission characteristics.
- A 24-pair cable has an inner sheath construction containing 4-pair units. In addition, the twisted pair construction between adjacent units was changed, resulting in greatly reduced interference (crosstalk) between units.
- This cable has been certified by several major overseas manufacturers of connecting hardware.
- This cable conforms to the RoHS standard.

Category / Construction

Item name symbol	0.5 4P DTI-C6X (Color symbol)	0.5 8P DTI-C6X (Shaped like a figure 8) (Color symbol)	0.5 24P DTI-C6X (Color symbol)

Number of pairs*1		4	8	24
Conductor		AWG24 (0.5mm)		
Insulator O.D. mm		1.0	1.1	
Sheath	material	PVC		
	O.D. mm	6.3	6.6x13.9 *2	21.0
	Color (Color symbol) *3	Green (G), Blue (B), Red (R), Orange (O), Yellow (Y), Violet (V), Dark Blue (DB), White (W), Gray (S)		
Standard stripe length m		300	500	500
Estimated weight kg/km		36	90	310
Packaged form		Paper eco-bobbin winding	Wooden drum winding	Wooden drum winding
Construction diagram		Diagram 1 below	Diagram 2 below	Diagram 3 below



*1 :For numbers of pairs other than these, please consult us separately.

*2 :Minor diameter × major diameter (Refer to the construction diagram)

*3 :Please specify the color symbol when ordering.

* :We can also manufacture fire retardant grade (VW-1) cables optionally.

Cable characteristics table

Item	Unit	Frequency 100MHz		Frequency 250MHz	
		Standard value	Measured value	Standard value	Measured value
Insertion loss IL	dB / 100m	≤19.8	19	≤32.8	30
Near-end crosstalk attenuation NEXT	dB	≥44.3	55	≥38.3	49
Power sum near-end crosstalk attenuation PSNEXT		≥42.3	53	≥36.3	47

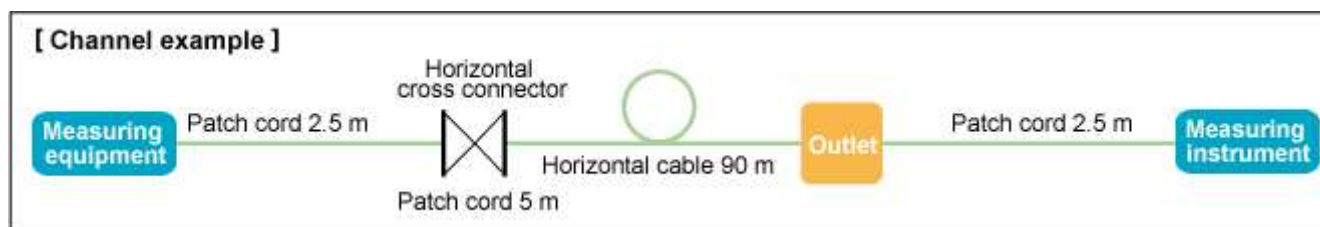
Item	Unit	Frequency 100MHz		Frequency 250MHz	
		Standard value	Measured value	Standard value	Measured value
Equilevel far-end crosstalk ELFEXT		≥27.8	43	≥19.8	29
Power sum equilevel far-end crosstalk PSELFEXT		≥24.8	41	≥16.8	27
Return loss RL		≥20.1	35	≥17.3	25
Propagation delay time P. Delay	ns / 100m	≤538	500	≤536	498
Propagation delay time difference P. Delay Skew		≤45	30	≤45	30

*:The standard value is TIA/EIA-568-B.2-1, and the measured value is Typ. value.

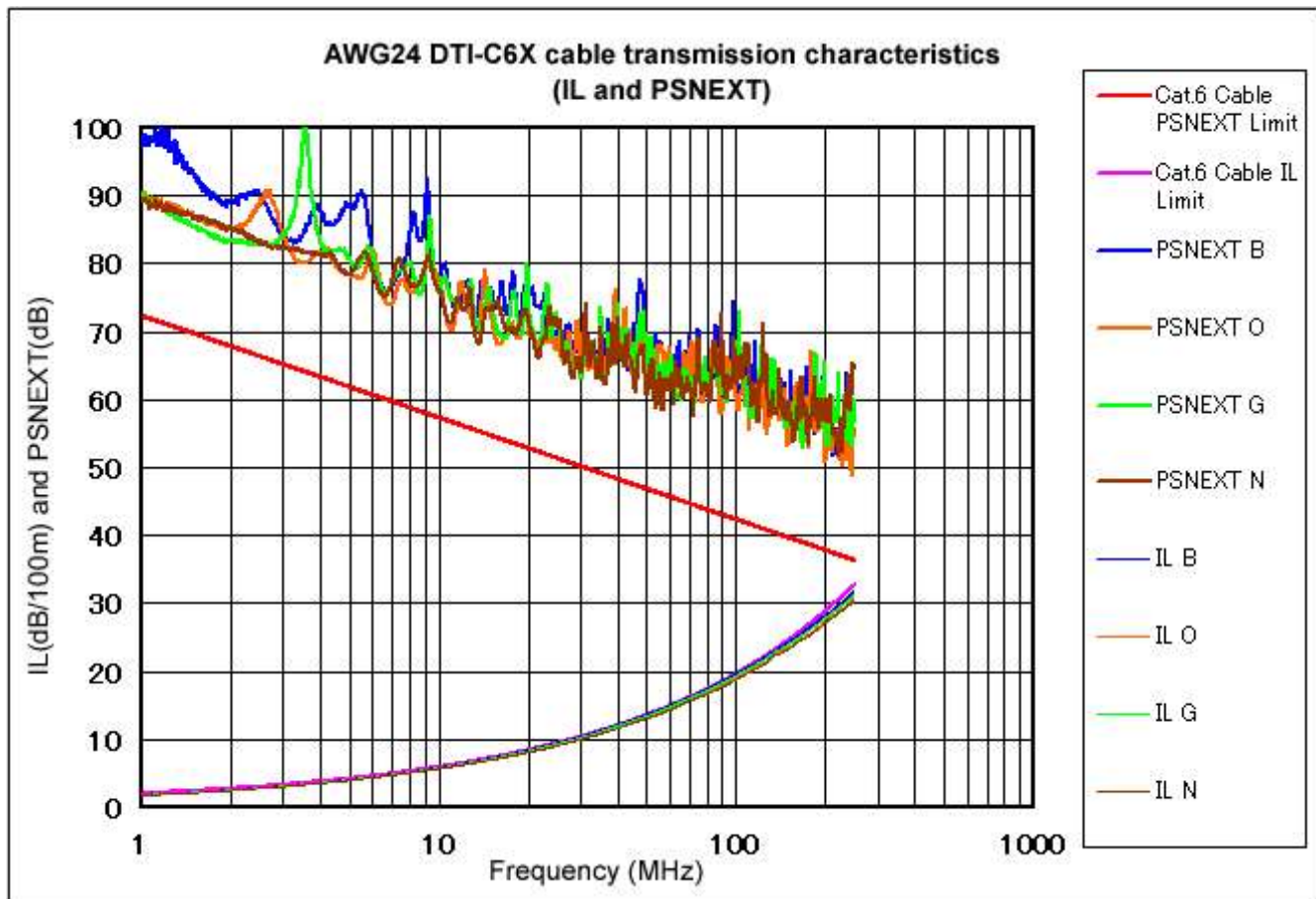
Channel characteristics table

Item	Unit	Frequency 100MHz		Frequency 250MHz	
		Standard value	Measured value	Standard value	Measured value
Insertion loss IL	dB / 100m	≤21.3	20	≤35.9	32
Near-end crosstalk attenuation NEXT	dB	≥39.9	48	≥33.1	41
Power sum near-end crosstalk attenuation PSNEXT		≥37.1	46	≥30.2	39
Equilevel far-end crosstalk ELFEXT		≥23.3	36	≥15.3	26
Power sum equilevel far-end crosstalk PSELFEXT		≥20.3	33	≥12.3	23
Return loss RL		≥12.0	24	≥8.0	17
Propagation delay time P. Delay	ns / 100m (@10MHz)	≤555	510	10MHz Measure value	
Propagation delay time difference P. Delay Skew		≤50	32		

*:The standard value is TIA/EIA-568-B.2-1, and the measured value is Typ. value.



Characteristics example (PS-ACR characteristics)



Packaged form (4-pair cable)

- The cable has no tendency to bend, and is easy to install.
- The new environmentally friendly eco-packaging enables waste to be eliminated from the site.
- This is a newly developed paper bobbin type (4 pairs only), so the cables do not twist and also they can be stored without loss of performance.



Copyright©1997-2017 Oki Electric Cable Co.,Ltd. All Rights Reserved.