NEW Digital Audio Cable

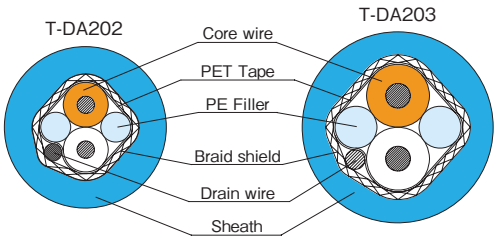
Applications

110Ω Digital Audio Cable compliant to AES／EBU Standard for professionals, best choice for mobile use.

Features

- TACHII has specially designed to make characteristic impedance 110Ω, and assured the reliability to ultimately minimize bit error of digital audio signal. Stable transmission has been available in T-DA series by employing PE rod structure so that sufficiently strong against bending and possible to keep 110Ω. TACHII has also employed high density braid shield superior in masking property, as a result, this cable can exercise superior noise-proof performance against external noise.
- TACHII has designed T-DA203 to excellently fit XCC Connector made by Neutrik specialized for 110Ω digital audio.
- This series are compliant to transmit digital audio signal respectively, T-DA202 for 210m max., T-DA203 for 310m max., T-DA206 for 390m max. subject to AES sampling rate 48kHz.
- TACHII has employed cross-linked polyethylene for insulator, field workers can easily solder to XLR Connector.
- For sheath material, TACHII has employed environment-friendly nonleaded type PVC. It is also possible to make ECO type.

Configuration



Nominal Attenuation Value

Model	Nominal Attenuation Value (dB／100m)						
	2MHz	3MHz	4MHz	5MHz	6MHz	12MHz	25MHz
T-DA202	3.3	4.2	4.9	5.6	6.2	8.9	12.5
T-DA203	2.3	2.9	3.4	3.8	4.2	6.1	9.0
T-DA206	1.8	2.3	2.7	3.1	3.4	4.9	7.2

※ 3MHz is the basic frequency for sampling rate 48kHz.

Construction・Properties

Model	Conductor		Insulator	Drain wire	Twist	Shield			Finished cable		Electrical properties	
	Structure Wires/mm	Cross section area mm²	O.D. mm	Structure Wires/mm	pitch mm	Method	Structure spindles/Wires/mm	Density %	O.D. mm	Weight approx. kg／100m	Characteristic impedance Ω	Line capacity pF／m
											1M～25MHz	1kHz
T-DA202	7/0.18A	0.18 (AWG25)	1.40	7/0.18TA	35	Braid	16/8/0.10TA	94	5.0	3.6	110±12	44
T-DA203	7/0.254A	0.35 (AWG22)	1.98	7/0.203TA	49	Braid	24/8/0.10TA	94	5.94	5.0		
T-DA206	7/0.32A	0.56 (AWG20)	2.50	7/0.26TA	61	Braid	24/7/0.12TA	94	7.3	7.4		

NEW Digital Audio Cable for Anchoring use

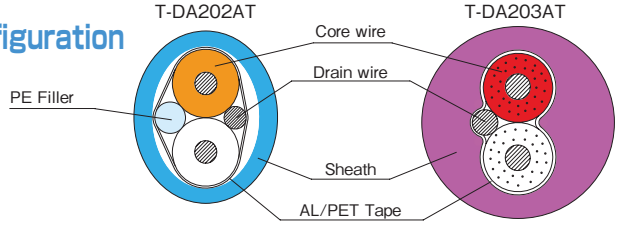
Applications

110Ω Digital Audio Cable compliant to AES／EBU Standard for professionals, best choice for anchoring use.

Features

- TACHII has specially designed to make characteristic impedance 110 Ω, and assured the reliability to ultimately minimize bit error of digital audio signal. Stable transmission has been available in T-DA202A by employing PE rod structure at one side for the first time in AL/PET shield type so that stronger against bending than conventional and possible to keep 110 Ω. TACHII has also employed pressurized sheath structure in T-DA203AT, so that the cable can be more strong against bending than one side rod structure and can keep 110 Ω.
- T-DA202AT is the most thin and light in the series, therefore this cable can be most easily used for wiring in racks. T-DA203AT has been designed to comply even for wiring between rack lines, and between rooms, in addtion to wiring in racks.
- This series are compliant to transmit digital audio signal respectively, T-DA202AT for 170m max., T-DA203AT for 190m max. subject to AES3 sampling rate 48kHz.
- For insulator, TACHII has employed cross-linked polyethylene for T-DA202AT, foamed cross-linked polyethylene for T-DA203AT, so that field workers can easily solder.
- For sheath material, TACHII has employed environment-friendly nonleaded type PVC. It is also possible to make ECO type.

Configuration



Nominal Attenuation Value

Model	Nominal Attenuation Value (dB／100m)						
	2MHz	3MHz	4MHz	5MHz	6MHz	12MHz	25MHz
T-DA202AT	4.6	5.3	5.9	6.4	6.8	9.0	12.5
T-DA203AT	4.1	4.7	5.2	5.7	6.1	8.2	12.4

※ 3MHz is the basic frequency for sampling rate 48kHz.

Construction・Properties

Model	Conductor		Insulator	Drain wire	Twist	Shield		Finished cable		Electrical properties	
	Structure Wires/mm	Cross section area mm²	O.D. mm	Structure Wires/mm	Pitch mm	Method	Density %	O.D. mm	Weight approx. kg／100m	Characteristic impedance Ω	Line capacity pF／m
										1M～25MHz	1kHz
T-DA202AT	7/0.18A	0.18 (AWG25)	1.63	7/0.18TA	35	AL/PET Tape	100	4.1	1.6	110±12	44
T-DA203AT	7/0.203TA	0.23 (AWG24)	1.65	7/0.203TA	44	AL/PET Tape	100	4.57	2.4		38

NEW Digital Audio Multiple Cable

Applications

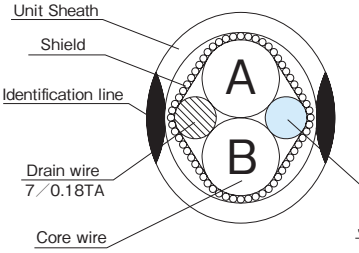
110Ω Digital Audio Multiple Cable for professionals compliant to AES/EBU Standards.

Features

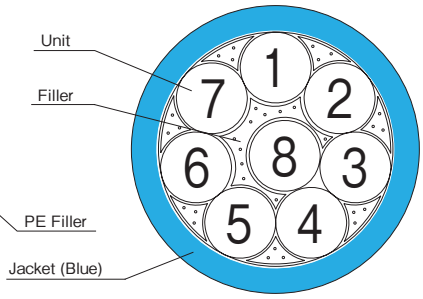
- TACHII has specially designed to make characteristic impedance 110Ω, and assured the reliability to ultimately minimize bit error of digital audio signal. By making 8 channel, only one cable can be compliant, which used to be assorted with 8 cables before.
- In order to materialize a lot of freedom further on wiring in racks etc., TACHII has made more flexible design.
- For insulator, TACHII has employed foamed cross-linked polyethylene and materialized cable thinner (φ11.2mm), as a result, excellently fit general D-sub25 pin connector. In addition, It becomes possible to easily solder at terminal treatment and accelerate total processings.
- TACHII has designed unit by employing one side PE rod structure, to make sure strength against bending. TACHII has also employed spiral shield for unit shield to make terminal processing on D-Sub easy.
- Unit identification has become easier by putting color plastic code (8 colors) linearly on both sides in each unit sheath (Blue). The core wire color has been 2-colors, one is same with unit identification line color and the other is white color, as twisted pair specification, so that field workers can intuitively understand.
- TACHII has been compliant to the processing of XLR Connector (Made by ITT Canon, or Neutrik) on the terminal. Please refer to 110Ω digital audio cable, Harness Assembled Cable on Page 38. Contact with our business department on the details of wire connection.
- T-DA202F-8P is suitable for transmission of digital audio signal up to 160m.(Subject to AES sampling rate 48kHz)
- For unit sheath and jacket material, TACHII has employed environment-frienly nonleaded type PVC.

Configuration

Unit configuration



Finished configuration



Nominal Attenuation Value

Model	Nominal Attenuation Value (dB/100m)						
	2MHz	3MHz	4MHz	5MHz	6MHz	12MHz	25MHz
T-DA202F-8P	4.0	5.3	6.5	7.7	8.8	14.7	25.7

※ 3MHz is the basic frequency for sampling rate 48kHz.

Construction·Properties

Model	Conductor		Insulator	Unit structure					Layer twisted		Finished cable		Electrical properties	
	Structure Wires/mm	Cross section area mm²	O.D. mm	Twisted pitch mm	Shielding method	Structure Wires/mm	Density %	O.D. mm	Pitch mm	O.D. mm	O.D. mm	Weight approx. kg/100m	Characteristic impedance Ω 1M~25MHz	Line capacity pF/m 1kHz
T-DA202F-8P	7/0.18TA	0.18 (AWG25)	1.10	40	Spiral	60±5/0.10TA	92	3.0	153	9.2	11.2	15.4	110±12	45

Unit Identification

ch	Insulator color A	Insulator color B	Sheath color / Line color	ch	Insulator color A	Insulator color B	Sheath color / Line color	ch	Insulator color A	Insulator color B	Sheath color / Line color	ch	Insulator color A	Insulator color B	Sheath color / Line color
1	White	Brown	Blue/Brown	3	White	Orange	Blue/Orange	5	White	Green	Blue/Green	7	White	Purple	Blue/Purple
2	White	Red	Blue/Red	4	White	Yellow	Blue/Yellow	6	White	Blue	Blue/ –	8	White	Gray	Blue/Gray