



Pathfinder

Audio Cables

General information to construction and application of Draka Comteq Audio Cables	General Information
110 Ω Audio Cables acc. to AES/EBU-standard for fixed installation and mobile use with spiraled wires pair screen for analogue and digital transmission (0.14 mm ²) up to 48 pairs	AC10 SP 26/7 nxP
110 Ω Audio Cables acc. to AES/EBU-standard for fixed installation and mobile use with spiraled wires pair screen for analogue and digital transmission (0.22 mm ²) up to 48 pairs	AC10 SP 24/7 nxP
110 Ω Audio Cables acc. to AES/EBU-standard for fixed installation and mobile use with spiraled wires pair screen and common screen of tinned copper braid for analogue and digital transmission (0.22 mm ²) up to 48 pairs	AC10 SPS 24/7 nxP
110 Ω Audio Cables acc. to AES/EBU-standard for fixed installation and partly mobile use with Al-PETP-foil pair -and common screen for analogue and digital transmission (0.22 mm ²) up to 48 pairs	AC10 SS 24/7 nxP
110 Ω Audio Cable acc. to AES/EBU-standard for fixed installation with Al-PETP-foil common screen for analogue and digital transmission	AC10 S 26/1 1P
110 Ω Audio Patch Cable for mobile use with spiraled wires common screen for analogue and digital transmission	AC10 SP 24/7 1P
110 Ω Audio Cables acc. to AES/EBU-standard for fixed installation and partly mobile use with Al-PETP-foil pair screen and common screen of Al-PETP-foil and braid for analogue and digital transmission (0.14 mm ²)	AC10 SS 26/7 nxP
110 Ω Audio Cables acc. to AES/EBU-standard for fixed installation with Al-PETP-foil pair screen and common screen of Al-PETP-foil and braid for analogue and digital transmission (0.26 mm ²)	AC10 SS 23/1 nxP
110 Ω Audio Cables acc. to AES/EBU-standard as Patch Cable with pair and common screen for analogue and digital transmission (0.14 mm ²)	AC10 SS 26/7 1P
	AC10 SS 26/7 2P
110 Ω Audio Cables acc. to AES/EBU-standard as Patch Cable with pair and common screen for analogue and digital transmission (0,22 mm ²)	AC10 SS 24/7 1P
Audio Cables for fixed installation and mobile use with spiraled wires pair screen for analogue transmission (0.14 mm ²) up to 48 pairs	AC SP 26/7 nxP
Audio Cables for fixed installation and mobile use with spiraled wires pair screen for analogue transmission (0.22 mm ²) up to 48 pairs	AC SP 24/7 nxP



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Audio Cables for fixed installation and partly mobile use with Al-PETP-foil pair- and common screen for analogue transmission (0.22 mm ²) up to 48 pairs	AC SS 24/7 nxP
10 paired Audio Cable acc. to ARD standard for fixed installation and mobile use with spiraled pair screen and overall braid for analogue transmission	Li - 2YDYCY 10x2x0.14 mm²
Construction of the Audio Cables	Construction
Electrical properties of the Audio Cables	Electrical properties
Overview of the technical data	Technical Data

General Information

Application and properties

For this reason, **Draka Comteq** have extended their large variety of audio cables by new designs for digital broadcasting and TV - technique. The series AC10 SS 26/7 and AC10 SS 23/1 offer an excellent adoption of the sound - and an excellent signal - transmission: Our digital audio cables are designed in accordance with the ARD - specification and fully comply with the AES/EBU - standard. Therefore., they guarantee, also in daily practice, the specified characteristic impedance of 110 Ω +/- 20% and data transmission rates of 3 Mbit/s (single channel) and 6 Mbit/s (two channels). With such high data rates - in comparison to the analogue technique - no PVC - core insulations may be applied anymore, as attenuation rates would be too high. The solution: Mechanically lower tolerances in mainly cellular core insulations, bearing smaller γ and low loss factor.

The advantages: low attenuation, min. reflections and reliably low transfer impedance - all best conditions for a fault free sound event. Just as important in the range of studios are the low fire load as well as the high aging and abrasion resistance. Demands, that are fully met by our audio cables due to physical cellular PE as insulation as well as their FRNC - or special PVC - sheaths.

Naturally, our symmetrical and pair screened audio cables meet with the demands of broadcasting- and TV-technique with regard to interference transmission resistance. Ideally combined pair lengths of lay and a 100% pair screening guarantee lowest influencing amongst each other and a complete elimination of outer interferences, also when applying large lengths.

Depending on the range of application, our 110 Ω - audio cables are available in 2 dimensions:

- for partly mobile application
AC10 SS 26/7
(7x0.16 mm = 0.14 mm²) and
- for fixed installations
AC10 SS 23/1
(0.56 mm = 0.26 mm²)

Best electromagnetic compatibility is being ensured by audio cables for fixed installations due to their overall screening, consisting of Al - laminated foil and tinned copper braid with high optical coverage. Also the robust audio cables for mobile applications offer ideal electromagnetic compatibility.

Besides these two versions we can offer the following additional six type-series as part of our produc-scope:

AC SP 26/7 nxP, AC SP 24/7 nxP with spiraled-wires screening for analogue audio-transmission and mobile application in conductor-dimensions 0.14 sqmm and 0.22 mm².

Furthermore the following series:

AC SS 24/7 nxP with foil-pair-screening and foil-common-screening for analogue audio-transmission and fixed installation.

Our series AC10 SP 26/7 nxP AC10 SP 24/7 nxP and AC10 SP 26/7 nxP are equivalent to the above series, however optimized for the digital audio-transmission.