



We make communication technology work, by serving you in every way to realize your leading edge network solution



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Draka Communications has offices and production facilities all over the world. To get in touch with us and find out how we can help you build your network, visit our website at www.draka.com or contact us at:

Our offices in the EMEA region:

Austria

- Trillergasse 8
A-1210 Vienna
Phone: +43 1 294 0095 16
Telefax: +43 1 294 0095 97
brigitte.leitner@draka.com

Denmark

- Priorparken 833,
DK-2605 Broendby,
Phone: +45 43 48 20 50
Telefax: +45 43 48 26 59
br.info@draka.com

Finland*

- Kimmeltie 1
FI - 02110 Espoo
Phone: +358 10 56 61
Telefax: +358 10 56 63 394
fi-info@draka.com

*)including: The Baltic, Poland, Ukraine, Belarus, Georgia and Armenia.

France

- Le Sophocle - Parc de Algorithmes 9,
Avenue du Marais
95100 Argenteuil
Phone: +33 1 34 34 41 30
Telefax: +33 1 30 76 40 12
dcf.sales@drakacomteq.com

Germany

- Friedrichshagener Strasse 29-36
D - 12555 Berlin
Phone: +49 30 65 485 760
Telefax: +49 30 65 485 602
berlin.info@draka.com

Germany*

- Piccolomini Strasse 2
D - 51063 Cologne
Phone: +49 221 67 70
Telefax: +49 221 67 73 890
koeln.info@draka.com

*)including: Switzerland

Germany

- Bonnenbroicher Strasse 2-14
D - 41238 Moenchengladbach
Phone: +49 21 66 134 0
Telefax: +49 21 66 134 1000
kabel.mg@drakacomteq.com

Netherlands (HQ - Comteq Cable Division)

- De Boelelaan 7 - Building Officia I
1083 HJ Amsterdam
Phone: +31 20 56 89 865
Telefax: +31 20 56 89 409
comteq.info@draka.com

Netherlands (HQ - Comteq Fiber Division)

- Zwaanstraat 1
5651 CA Eindhoven
Phone: +31 40 295 87 00
Telefax: +31 40 295 87 10
fibresales@draka.com

Netherlands*

- Zuidelijk Halfrond 11
2801 DD Gouda
Phone: +31 182 59 21 00
Telefax: +31 182 59 22 00
nl.dct.info@draka.com

*)including: Belgium, Luxembourg

Norway*

- Kjerraten 16
3013 Drammen
Phone: +47 32 24 90 00
Telefax: +47 32 24 91 16

*)including: Sweden and Iceland

Romania*

- NK Cables Ltd.
10, Montreal Place, WTC
Entrance F, 1st Floor
011469 Bucharest
Phone: +40 21 202 3057
Telefax: +40 21 202 3100
vladimir.doicar@draka.ro

*)including: Bulgaria, Greece and Moldova

Russia

- Neva Cables Ltd.
8th Verkhny pereulok, 10,
St.Petersburg, 194292
Phone: +7 812 592 84 79
Telefax: +7 812 592 77 79
office@nevacables.ru

Spain

- Av. de Bilbao 72
39.600 Maliaño - Cantabria
Phone: +34 942 24 71 00
Telefax: +34 942 24 71 14
ana.sierra@draka.com

Spain*

- Can Vinyalets núm. 2
08130 Sta. Perpetua de la Mogoda -
Barcelona
Phone: +34 935 74 83 83
Telefax: +34 935 60 13 42
josep.cabrera@draka.com.es

*)including: Portugal and Italy

Turkey*

- Ebulula Cad. 4,
Gazeteciler Sitesi A 14-4
Levent-Besiktas
Istanbul
Phone: +90 212 280 25 59
Telefax: +90 212 280 32 08
mea-info@draka.com

*)including: All other countries in Africa and Middle East

United Kingdom*

- Crowther Road, Crowther Industrial
Estate,
Washington, Tyne and Wear, NE38 0AA
Phone: +44 191 415 50 00
Telefax: +44 191 415 82 78
comtequk@draka.com

*)including: Ireland

Our European Production Centres:

Denmark

- Broendby

Finland

- Oulo

France

- Calais Cedex
- Haisnes Cedex

Germany

- Berlin
- Nuremberg
- Moenchengladbach

Netherlands

- Eindhoven
- Delfzijl

Russia

- St. Petersburg

Slovakia

- Presov

Spain

- Santander

United Kingdom

- Washington, Tyne and Wear

Cable Solutions you can depend on: Draka Media & Broadcasting Solution

On air, during an event or in an advertising break - audio, camera and media cable solutions - that 's where we can help you!

**Who enables the broadcasting of Events?
Draka Studio Broadcast Cables**

Draka Office Network

www.draka.com

We are an equal opportunity employer



Who is Draka Communications?



Draka Communications - a member of Draka Holding N.V. located in Amsterdam - offers a versatile and reliable range of copper and optical fiber cables for the transmission in the data and telecommunication industry.

Our long-lasting expertise in cable and fiber business has been the basis for us holding a major market position today. Draka Communications is located in more than 30 countries in Europe, Asia, North America and South America.

Value Innovation

Value Innovation is a way of looking at the world. What we can do to help our customers do more, make more, save more and achieve more? A lot. We help our customers to stay ahead. By combining market insight with technological know-how and building strong, long-lasting relationships, we add value to their business with advanced communication solutions and services that are designed to last. No matter how complex your challenge, we have a product or solution that will do more than meet your needs. And if for some reason we don't, we'll make it for you. New applications, breakthrough cables, custom connectors or complete network designs - it's all part of what we call Value Innovation, and it's what drives us.



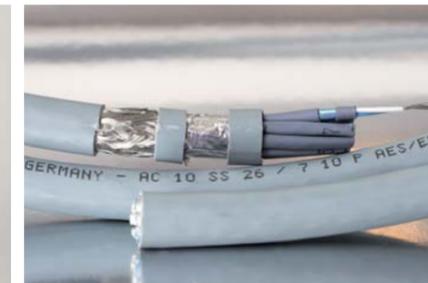
Draka Communications

For many decades, we have been designing, developing, manufacturing and selling a variety of high-quality copper and optical fiber cables in order to offer you cable solutions for present and future challenges - let it be standard products or tailor-made special cables.

In the communication infrastructure, our well proven products are always in use wherever it is a question of professional and undisturbed data, voice, audio and video transmission.

Broadcast

On air, during an event or in an advertising break, there cannot be anything worse than a transmission loss. Whether in the outside field or inside the studios, for the broadcast industry high quality and reliability are a must. For this reason, national and international broadcasting companies decide for Draka Communications products, without "ifs and buts".



You'll find our broadcast cables in use at worldwide events, in recording studios, outside broadcasting and 'live on stage'.



Whatever media you're in, the Draka Media & Broadcast Solution has the cables you need.



Factors of success

The demands on the studio technique are nearly unlimited. Sports events, politics, culture and news - camera teams have to deliver optimal pictures worldwide, and with our high-performance products we are your reliable partner. Whether studio production or outside broadcasting, analogue or SDI, SDTI or HDTV, live or virtual - we have got the right cable for you.

Our products are developed and produced for the latest technology. We guarantee high efficiency of the passive transmission. To support your success, our products offer economic efficiency and excellent capacity reserves.

Product Diversity

- High-precision analogue and digital 75 Ω video cables connecting camera and CCU (Camera Control Unit), switcher and mixer, VTR and monitor.
- Analogue and digital multi-pair cables for the audio connection of camera connecting studios and broadcasting vans.
- Microphone cables in robust construction for the application on stage, in the speaker's cabin or during outside broadcasting.

- Speaker cables easy to wind up and multipurpose: they can be used for PA systems, security monitoring, edit suites, hi-fi systems and post production.
- Light & sound cables for light control (according to DMX512 standard) and highly flexible cables for musical instruments.
- Triax camera cables for the electric connection between camera and CCU; also available as Triflex cable for mobile application.
- Multicore camera cables assembled for leading camera systems upon request.
- Studio connecting cables for space-saving and ergonomic application.
- Optical fiber cables for long-distance transmission.

Service-oriented

With our products we create the conditions for a reliable and safe transmission of signals. Our studio cables fulfil significant specifications like ARD- and BBC-Specification, AES/EBU, SMPTE, IEC, EN and VDE. Thus, we can guarantee optimal transmission characteristics and best electromagnetic compatibility. Our studio cables are available with various outer sheath versions: PVC, PVC-rubber, FRNC or PUR. Our enormous experience is the basis for the high and certified quality standards our products are known for. Our offer is completed by qualified advisory service prior to the purchase decision, information as to the installation and a flexible logistics concept.



Triax, video and audio cables made by Draka Communications - extreme space ratio and still optimal transmission characteristics.

Capacity reserves

Today, studio productions and outside broadcastings have to be realised in much shorter time. There is no time for technical problems. Our studio and transmission cables have a high noise-immunity, an excellent EMC, an optimal screening factor and enormous capacity reserves - transmission results are outstanding even when using long application lengths. This is achieved by the application of selected materials and an optimal cable design.

Transmission quality

Digital demands imply a good transmission performance. The quality of the signals is often limited by typical interference factors. Among others, these are the near end cross talk (coupling of pairs next to each other) and the line-attenuation.

In order to achieve an excellent transmission quality, we develop and produce studio cables with a high screening factor, low line-attenuation and low transfer impedance.

For our audio cables, this is obtained by perfectly adjusted pair twisting lengths and a 100% pair screening. We apply an aluminium-laminated foil and a tight,

tinned copper braid for fixed installations. For mobile applications we recommend our highly flexible cables with a screening of spiraled wires.

Screening Factor

Professional transmissions can only be achieved by a high noise-immunity which has been standard with our studio cables for years. The high-quality screening of our products ensures an exceptionally high noise-immunity in an electromagnetic environment without emitting interferences on other systems.

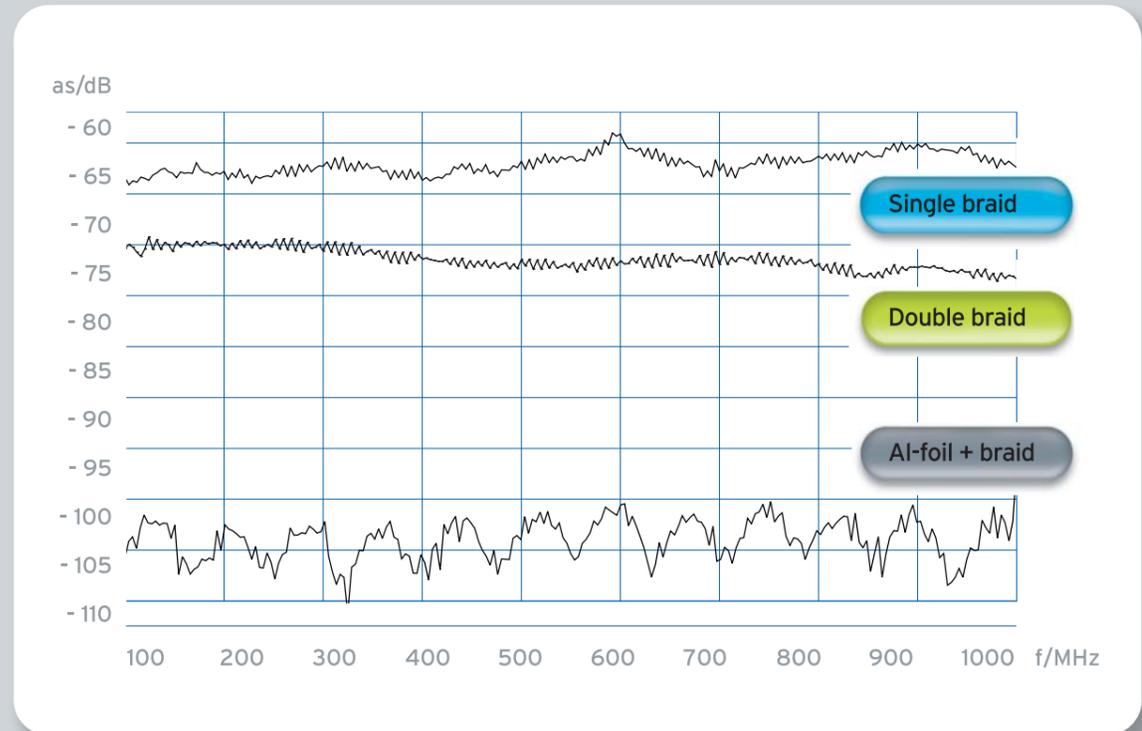
Fact is: the higher the screening factor, the better the noise-immunity of the cable.

A screening of aluminium-double-laminated foil plus braid results (at 300 MHz) in a screening efficiency improved by 20 dB in comparison to a cable screened with a double braid. Compared to a cable screened with a single braid, the screening factor even increases by 30 dB. With this production quality we fulfil the specifications of public broadcasting companies and international standards. For economical reasons, our products with aluminium-double-laminated foil and copper braid are applied in high-frequency ranges, thus achieving low transfer impedances.



Multicore camera cables: coaxial elements, power supply, audio- and pilot cores. Upon request, our studio cables are available with halogen-free FRNC sheath.

Screening factor



Transmission length

Cable type	270 Mb/s SDI	HD 1080i max. cable length tested	HD 1080i cable length calculated SMPTE 292M	HD 1080i cable length calculated SMPTE 292M with headroom	Cable length calculated
HD Pro 0.6/2.8 AF	230	110	66	60	42
HD Pro 0.8/3.7 AF	305	130	91	80	58
HD Pro 1.0/4.8 AF	365	160	112	100	72
HD Pro 1.4/6.6 AF	480	200	144	130	80
HD Pro 1.6/7.3 AF	530	240	161	145	90

Fire protection

Fire protection is an important aspect in the studio area. PVC cables were often used in the past. They are hard to ignite, but they do not prevent a spread of fire. They even emit corrosive and toxic gases. Where strong security regulations have to be adhered to we can provide studio cables with FRNC (Flame-Retardant-Non-Corrosive) sheath.

Testing

The secret of good fire protection characteristics lies in the material applied in our cables: On the one hand the fire load is considerably reduced by applying cellular PE, on the other hand the application of heat transmitting aluminium-laminated foil is an additional fire barrier.

In order to examine the specific fire characteristics, our studio cables are subject

to standardized test methods where either a single cable (test method B = IEC 60332-1) or a cable bundle (Test method C = IEC 60332-3) is tested. While the single cable is exposed to only one flame, the second test method examines the strength of the fire propagation by exposing a cable bundle to a line of flames for a longer period of time. The outcome: Our studio cables fully comply with the strong DIN regulations.

At a glance

- No fire propagation as the cable extinguishes itself automatically, i.e. no transmission of the local fire alongside the cables.
- No emission of corrosive gases.
- Very low smoke production.
- No Dioxin in the fire remains.



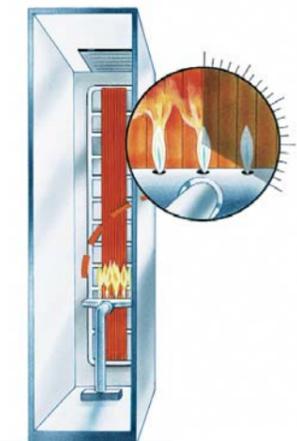
Compared with PVC cables, high-quality, halogen-free FRNC sheaths have remarkably improved properties in case of fire, meeting strongest security regulations.

Method IEC 60332-1



A 60 cm long piece of cable is exposed to a flame for 60 seconds. The cable must not ignite.

Method IEC 60332-3 Category C



A cable bundle is exposed to a line of flames for 20 minutes in a 4 meter high cabinet. Approximately one meter above the flames the cable bundle must extinguish itself with only a minimal production of smoke.

Video cables - Brilliance

Nowadays high-quality pictures are standard. With a narrow characteristic impedance tolerance, our video cables provide perfect conditions for an optimal combination between switcher and mixer as well as between VTR and monitor.

Choice of material

Due to the application of cellular PE insulation material in combination with double laminated aluminium foil and tinned copper braid with high optical coverage, our video cables reach maximum electrical characteristics.

Beside the used materials, the cable design and the exact insulation are essential for the quality of our video cables. We pay attention to these requirements, and therefore we can realize lowest reflections, a high structural return loss and a considerably low fire load.

Packing density

Extreme space ratios arise no problems for our video cables. Using cellular PE, our video cables obtain a much better packing density at same performance. Therefore our video cables easily solve the space problems on cable carriers and in cable ducts.

Our video cables reach attenuation values reduced by 30% compared to plain PE cables. Thereby you obtain a higher transmission capacity with the same outer diameter.

Standards

Our video cables fulfil the regulation R2 of European and International standards like IEC 60 801-4 and EN 50083-2.

References

Proven Quality: The result of a comparative research by the independent institute RBT in Nuremberg attested our efforts in the product quality.

Even in video transmission systems up to 1.5 GHz our video cables ensure a screening value of > 90dB at a very low transfer impedance.

Analogue + Digital



Electrical properties

Attenuation* at (dB/100 m)	5 MHz	4.4	2.5	1.9	1.6	2.0	1.7	1.0	0.9
	100 MHz	17.9	10.5	7.9	6.2	8.0	6.3	4.8	4.5
	500 MHz	39.9	24.5	17.6	14.8	17.3	13.9	12.0	11.0
	1000 MHz	55.4	35.3	25.5	20.7	25.8	20.7	17.9	16.2
	2250 MHz	100.7	54.0	39.5	31.7	41.6	31.7	27.5	25.0
	3500 MHz	129.0	70.7	51.7	41.5	54.5	41.5	36.0	32.7
Characteristic impedance	Ω	75 ± 0.75	75 ± 0.75	75 ± 0.75	75 ± 0.75	75 ± 0.75	75 ± 1.5	75 ± 0.75	75 ± 0.75
Mutual capacitance	pF/m	56	56	56	56	56	56	56	56
Screening factor	dB	> 100	> 100	> 100	> 100	> 90	> 90	> 100	> 100

Maximum application length at digital TV-transmission*

Data rate Mbit/s	Application length								
143 NTSC SMPTE 170 M	m	290	385	485	485	485	645	705	
177 Composite PAL	m	255	340	430	430	430	570	630	
270 SDI	m	230	305	365	365	365	480	530	
360 Widescreen	m	200	265	315	315	315	415	460	
1500 HDTV SMTPE 292 M	m	60	80	100	100	100	130	145	

Mechanical properties

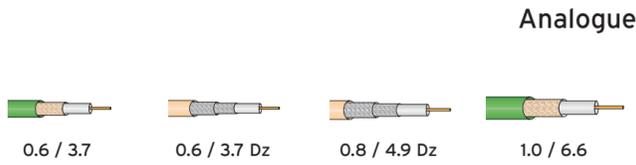
Diameter	mm	3.1	4.5	5.9	7.0	7.2	7.0	9.2	10.3
Weight	kg/km	14.0	27.0	49.0	69.0	80.0	52.0	109.0	150.0
Tensile force	N	50	60	100	140	115	115	200	270

Product code

PVC	CT 2967000	CT 2738600	CT 2710800	CT 2758300		CT 2721500	CT 2758400	CT 2757800
FRNC-B								
FRNC-C	CT 7667000	CT 2850202	CT 2850301	CT 2850401			CT 2850601	CT 2760901
DMC Flex PUR						CT 2878800		

* 90 % of the calculated max. lengths





Analogue

	0.6 / 3.7	0.6 / 3.7 Dz	0.8 / 4.9 Dz	1.0 / 6.6
	2.4	2.4	1.8	1.4
	10.9	10.9	8.0	6.5
	25.7	25.7	19.2	15.5
		36.3	27.1	39.2
		56.5	47.0	
	75 ± 0.75	75 ± 0.75	75 ± 1.5	75 ± 0.75
	67	67	67	67
	> 65	> 75	> 75	> 65
		285	380	
		245	325	
		200	265	
		170	225	
		55	75	
	6.0	6.3	7.4	9.2
	50.0	70.0	86.0	100.0
	70	200	200	150
	CT 2740200	CT 2741001	CT 2741601	CT 2742000
	CT 7640200			CT 7642000

Audio cables - The world of sounds

In order to enable a realization of optimal transmission, we have developed a wide range of digital and analogue audio cables. Our products offer an excellent adaptation to your sound transmission system and a perfect signal transmission. Our analogue cables are designed in accordance with the ARD specifications, our digital audio cables additionally comply with the AES/EBU standard.

Characteristic impedance

High data rates require a special cable design. Therefore, our audio cables grant a low ER (relative permittivity) and low loss factor thanks to a foam-skin insulation with narrow tolerances. Thus, our digital audio cables achieve a specified characteristic impedance of 110 Ω and data rates of 3 Mbit/s (single channel) and 6 Mbit/s (two-channel).

Transmission quality

We produce audio cables for the high demands of studios and broadcasting vans designed to provide a perfect transmission quality. What characterizes our products is a low fire load and a high aging and abrasion resistance.

Interference transmission resistance

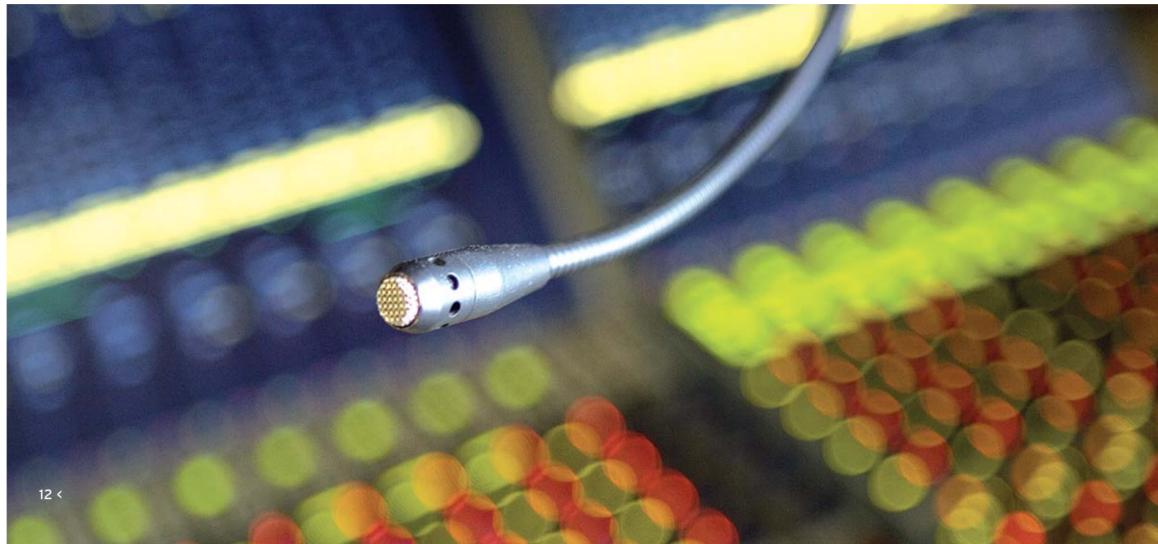
Perfectly adjusted twisting of the pairs and an excellent individual screening guarantee interference transmission resistance, immunity to outer interferences and lowest cross talk even at high frequencies.

The right cable for every demand

Mobile application (e.g. outdoor live transmission of a concert) calls for high flexibility. Particularly suitable for this purpose are our products with the flexible spiraled copper wire screen. Fixed installations require high performances and best electromagnetic compatibility. This is guaranteed by an overall screening consisting of aluminium-laminated foil and tight tinned copper braid.



Audio cables for digital and analogue broadcasting and TV-technique offer an enjoyment of sound to the audience



Digital



Cable type	Digisound nxP	AC 10 SS 26/7 nxP	AC 10 SP 24/7 nxP	Profisound Flex	AC 10 SS 23/1	AC 10 S 26/1	AC 10 SS 24/7
Cable design Single Element							
Conductor	Solid Cu-wires, bare	Stranded Cu-wires, bare	Stranded Cu-wires, bare	Stranded Cu-wires, bare	Solid Cu-wires, bare	Solid Cu-wires, tinned	Stranded Cu-wires, bare
	0.14 mm ²	0.14 mm ²	0.22 mm ²	0.22 mm ²	0.25 mm ²	0.14 mm ²	0.22 mm ²
Insulation	Foam skin-PE	Foam skin-PE	Foam skin-PE	Foam skin-PE	Foam skin-PE	Foam skin-PE	Foam skin-PE
Pair screen	Spiraled Cu-wires	PET-Al-Foil	Spiraled Cu-wires	PET-Al-Foil	PET-Al-Foil		
		+ stranded Cu-wires	+ stranded Cu-wires	+ stranded Cu-wires	+ solid Cu-wire		
Pair sheath	PBT	FRNC	PVC	PBT	FRNC		

Total construction							
Overall screen	Cu-braid	PET-Al-foil			PET-Al-foil	Al-PET-foil	PET-Al-foil
	tinned	+ Cu-braid			+ Cu-braid	+ solid Cu-wire	+ stranded Cu-wires and Cu-braid
Sheath	DMC Flex PUR	FRNC	DMC Flex PVC	DMC Flex PVC	FRNC	PVC, FRNC	DMC Flex PVC

Electrical properties									
Attenuation at (MHz)	Nominal value								
	0.015	(dB/100 m)	0.6	0.55	0.30	0.30	0.33	4.00	0.45
	1		3.0	3.00	1.50	2.50	2.50	6.80	2.40
	4		6.0	5.30	3.80	4.20	4.20	10.00	4.60
	10		10.9	8.10	6.00	6.30	6.30	13.90	6.70
Characteristic impedance at 6 MHz			110 Ω						
DC loop resistance at 20 °C ± 5 °C and 500V			≤ 288 Ω/km	≤ 288 Ω/km	≤ 175 Ω/km	≤ 175 Ω/km	≤ 165 Ω/km	≤ 288 Ω/km	≤ 174 Ω/km
Mutual capacitance at 800 Hz			nom. 45nF/km	nom. 45nF/km	nom. 46nF/km	nom. 45nF/km	nom. 45nF/km	nom. 45nF/km	nom. 46nF/km

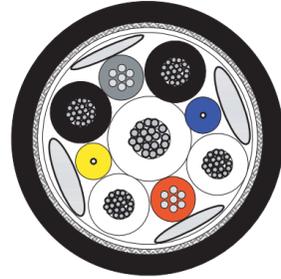
Diameter								
1P						4.60	3.00	6.00
2P			7.00	10.90	9.20	8.30		
4P			8.40	11.60	10.00			
8P			11.90	14.90	12.5	13.00		
10P		10.50	13.70		14.0	15.10		
12P			14.10	18.70	15.00	15.60		

Product code							
1P					CT 7649010	CT 7650200*	CT 2757601
2P		CT 7652410	CT 2956200		CT 7649710		
4P		CT 7651610	CT 2956300				
8P		CT 7652111	CT 2956400		CT 7648710		
10P		CT 7651811			CT 7649410		
12P		CT 7651911	CT 2956600		CT 7649510		

* FRNC

AES/EBU-standard, ARD-specification, DIN VDE 0472 part 804, test method B and C, IEC 60332-1, IEC 60332-3 CF

Hybrid camera cable SMPTE 311 M



Multicore - Proven quality

The smooth performance of your proven camera systems of Philips, Bosch, Sony, Ikegami, JVC, RCA and Thomson have been a valuable factor for years! To make sure that your systems function without any limit in the future, we are stocking our reliable multicore camera cables. So we can realize a short delivery time of multicore camera cables for common systems in case of repair or replacement.

Multifunctionally

Characteristic for our multicore camera cables are the proven high quality and long lifespan. The cables are set up of various single cores and contain:

- Low attenuation and low distortion
75 Ω coaxial cables for video signals, synchronization and electronic view finder.
- Screened power supply cores.
- Pilot and alarm-cores for optical piloting, synchronization, remote indicator of the optical position and temperature as well as communication between the operating personnel.
- Power cores for spots.
- High-voltage cores for anode tension and for piloting of tube laying on considerably high potential.



Cable lay up		
Diameter	mm	9.2
Number and dimension auxiliary conductor		4 x 0.6 mm ²
Number of signal conductor		2 x 0.22 mm ²
Number of fiber optics		2 x 9/125μ
Number of strain relief elements	∅	1 x 2.1 mm
Mechanical Properties		
Bending radius	mm	65.0
Sheath		PUR
Product code		
CT		2987002

Other cable types on request

The hybrid HDTV camera cable is applicable as a camera cable for slo-mos, as a camera cable for studio applications, as a patch cable or as a camera cable for mobile applications.

It is used in professional video productions for simultaneous transmission of power, video, audio and control signals and is intended to interconnect camera units and base stations in conjunction with the connector interface standard (outdoor). It is suitable for all new digital camera systems of well-known manufacturers.



Nowadays camera pictures supply top events. Whether the quality is likewise impressive also depends on the used camera cables.

Cable type



755-804



757-703



755-901



752-10



756-12



758-2/1 HDTV



Premium Patch CAT7

Cable design

Diameter	mm	20.0	16.0	22.2	10.0	12.7	13.5	7.0
Number and dimension coaxial	75 Ω	5 x 0.8/3.7 AF	7 x 0.6/2.8 AF	5 x 1.0/4.8 AF	2 x 0.6/2.8 AF	6 x 0.38L/1.7	3 x 0.6/2.8 AF	+5 x 0.38L/1.7
Number of power cores	mm ²				2 x 1.5 mm ² , unscreened	2 x 1.5 mm ² , unscreened	6 x 0.5 mm ² , unscreened	
Number of cores	mm ²				5 x 0.14 mm ² , unscreened	9 x 0.14 mm ² , unscreened	2 x 0.14 mm ² , screened	
unscreened/screened						8 x 0.14 mm ² , screened	4 x 0.14 mm ² , unscreened	

Mechanical properties

Bending radius	mm	200.0	220.0	225.0	95.0	130.0	140.0	25.0
Sheath		DMC Flex PVC	PUR	FRNC-C	DMC Flex PVC	PVC	DMC Flex PUR	DMC Flex PUR

Product code

	CT2961400	CT2758800	CT2985800	CT2740500	CT2739100	CT2739901	CT2602700
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Other cables types on request.

755-804

- 75 = Characteristic impedance of the coaxiales
- 5 = Number of coaxiales
- 8 = cable construction
- 01 = FRNC
- 02 = PVC
- 03 = PUR
- 04 = DMC Flex PVC



VAN



VA 12



VAN 113

14.0	11.8	13.5
2 x 0.6/2.8 AF	1 x 0.8/3.7 AF	1 x 0.6L/2.8 AF
3 x 1.5 mm ²		3 x 1.0 mm ²
screened		unscreened
3 x 2	2 x 2	1 x 2
x 0.22 mm ²	x 0.22 mm ²	x 0.14 mm ²
screened	screened	screened
140.0	120.0	120.0
PUR	DM Flex PVC	DM Flex PVC
CT2877000	CT2875700	CT2963200

VAN 113

- V = Video
- A = Audio
- N = Power supply
- 1 = 1 x Video
- 1 = 1 x Audiopair
- 3 = 3 x Power element

Live on stage

Luxurious illumination and stage shows, reporting motion pictures, unique concerts or documentations from all continents – we offer cable solutions for light & sound, microphone and speakers. Our cables are available with highly flexible and abrasion resistant outer sheath made of DMC Flex PUR or DMC Flex PVC.

Microphone Cable

Our microphone cables are designed to correspond with the requirements of stage applications as well as the quality requirements for professional studio productions. The DMC Flex PUR sheath is especially abrasion-resistant and cold-resistant. In cooperation with the connector manufacturer Neutrik, Zurich and the Swiss TV we have developed a cold-resisting, digital microphone cable. During the winter games in Davos, the cable was successfully tested under extreme temperature conditions. Besides, our analogue and digital microphone cables are used in speaker cabins or for post production. The cables are suitable for fixed installations or mobile applications.

Speaker Cable

Thousands of people are listening to a live concert, cabling of hi-fi systems, edit suites or post production – the right sound is absolutely necessary. You obtain best sound transmission quality by using our high-quality speaker cables with a DMC Flex PVC sheath. Round and flexible, they grant an easy wind up of the cable.

Light & Sound

Here you find our products for light control and musical instruments (for example E-guitar). Our guitar cables with graphite layer (low-noise guitar cables) reduce the interference caused by statical boost to a minimum. We offer high-quality products

and take care of the requirements related to practice, such as flexibility, long application lengths and abrasion resistance. Our digital cables for light control fulfil the DMX 512 standard. They are suitable for fixed installation and mobile application and allow a simple controlling even by long transmission routes. To ensure the perfect sound of an electric or an electrically amplified instrument we have designed a special cable. Due to the DMC Flex PUR sheath and an unsymmetrical construction it is easy to wind up and nevertheless robust. The cable design ensures a low loss and high-quality transmission during application in studios and on stage.



DMX Power



DMX PAT 512N



Micro 22



Micro D 22



Micro 22 outside

Guitar cable
DMC 1/6Guitar cable
DMC 1/4

Cable type

Cable design

Conductor	Stranded Cu-wires, tinned, 0.34 mm ²	Stranded Cu-wires, tinned, 0.34 mm ²	Stranded Cu-wires, bare, 2 x 0.22 mm ²	Stranded Cu-wires, bare, 2 x 0.22 mm ²	Stranded Cu-wires, bare, 2 x 0.22 mm ²	Stranded Cu-wires, bare, 2 x 0.22 mm ²	Stranded Cu-wires, bare, 2 x 0.22 mm ²
Insulation	PE	PE	PVC	PVC	Foam skin-PE	PE	PE
Overall screen	PET-Al-foil + stranded Cu-wires	PET-Al-foil + stranded Cu-wires	Spiraled Cu-wires	2 x Spiraled Cu-wires	Aramid + spiraled Cu-wires	Spiraled Cu-wires	Spiraled Cu-wires
Number of powercores	3 x 1.5 mm ² , screened						
Sheath	DMC Flex PVC	DMC Flex PVC	DMC Flex PVC	DMC Flex PVC	DMC Flex PUR	DMC Flex PVC	DMC Flex PVC

Mechanical properties

Diameter	15.6 mm	5.7 mm	6.0 mm	6.0 mm	6.5 mm	6.2 mm	4.0 x 8.0 mm
Bending radius	160 mm	60 mm	25 mm	25 mm	30 mm	25 mm	25 mm

Product code

	CT 2966000	CT 29955701	CT 2989503	CT 2986200	CT 2963500	CT 2757700	CT 2745000
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Other cables types on request.

