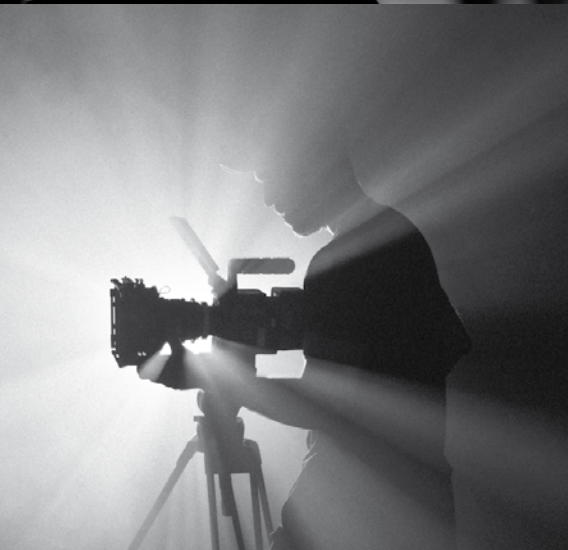




#hello friend



premade video cables



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+4.0

decades **fast forward**

multicore

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12G video quality

**KLOTZ video cables
with guaranteed 12G quality**

Who hasn't been confronted with questions by your customers about the transmission quality of your premade video cables? In our research, we found out that information in data sheets is usually only mathematical extrapolations and not based on sound measurements.

As an ISO 9001-certified company, we were no longer willing to put up with this situation and decided to invest in new measurement technology that would be fully integrated into the production process right from the start. This project did not come entirely without its own challenges, which had to be solved in advance.

Commercially available measuring devices for 50-ohm technology are only partially suitable for the 75-ohm systems used in broadcast. So we had to find a measuring device that was suitable for 75-ohm video cables and could be smoothly integrated into our series production. In addition, a calibrated measurement setup should be easy and efficient to realize in order to prevent falsifi-

cation of the measurement results. Mathematical extrapolations should absolutely be avoided.

Furthermore, it is necessary to be able to map the entire frequency spectrum for UHD 12G signals. Reliable results can be expected for digital signals for measurements up to the 3rd harmonic as a reasonable compromise, which corresponds to 18 GHz for 12G/4K signals according to SMPTE ST 2082-1. As measurement results, it must be possible to map the continuity of the characteristic impedance, the resulting return loss and the linear frequency-dependent attenuation as essential parameters. After appropriate research, a vector network analysis was found to be the solution. Since these network analyzers are only available in 50 ohms, a transformation of the characteristic impedance at the inputs had to be performed. The question arose as to whether corresponding high-quality and technically suitable components were available in the market. In close cooperation with Rohde & Schwarz, we were able to develop a measurement method that enables exact cali-



12G Measuring station
at the KLOTZ factory in Vilchband



Rohde & Schwarz ZNB20

bration to 75 ohms on the adapted measurement port. For us, a ZNB series network analyzer with high-precision test leads and adapters proved to be the ideal solution.

In addition, a way had to be found for calibration on BNC connections, which are commonly used in video technology. For this purpose, a solution with a specially developed high-precision 75-ohm calibration set up to 20 GHz was chosen. With this newly developed measurement system integrated in production, we can now perform transmission measurements (attenuation) in both directions S12 and S21, reflection measurements (return loss) S11 and S22 at both ends of the cable. Simultaneously, time domain gating measurements for impedance deviations in the cables and

on connectors can now be determined over the entire frequency range. KLOTZ 12G video cable series are available with BNCPro connectors from Damar & Hagen or with Neutrik UHD BNC.

After completing a 1.5-year development phase, we were able to commission the 12G test station at the Vilchband plant in late September.

This enables us to offer our customers not only the outstanding KLOTZ manufacturing quality, but also the necessary 12G measurement in order to be able to guarantee you a high level of operational reliability.

Upon request, you will receive a measurement report confirming the electrical parameters along with your KLOTZ 12G video cable.

HD-SDI transmission lengths

exemplary video formats	480i (NTSC), 576i (PAL)	720p, 1080i (HDTV)	1080p	1080p	4K	4K	
video resolution		1920 x 1080 pixels	1920 x 1080 pixels	1920 x 1080 pixels	3840 x 2160 pixels	3840 x 2160 pixels	
frame rate		25p / 30p	50p / 60p	50p / 60p	25p / 30p	25p / 60p	
bit rate	270 Mb/s	1.5 Gb/s	3 Gb/s	3Gb/s	6 Gb/s	12 Gb/s	
standard	SMPTE 259	SMPTE 292	SMPTE 424	SMPTE 425	SMPTE 2081-1	SMPTE 2082-1	
application	SD-SDI	HD-SDI 1.5G	HD-SDI 3.0G	UHDTV	UHDTV	UHDTV	
1/2 clock	135 MHz	750 MHz	1.5 GHz	1.5 GHz	3 GHz	6 GHz	
max. attenuation	30 dB	20 dB	20 dB	40 dB	40 dB	40 dB	
order code	cable type						
VD042LT	V05L/20	157 m	43 m	30 m	60 m	40 m	25 m
VD062SH	V06/28	243 m	64 m	44 m	89 m	61 m	42 m
VD083LP	V08L/37	258 m	67 m	46 m	93 m	62 m	40 m
VD083S..	V08/37	333 m	87 m	60 m	121 m	83 m	57 m
VD104S..	V10/48	410 m	110 m	76 m	151 m	104 m	70 m
VD125LPS	V12L/48	384 m	99 m	68 m	135 m	90 m	57 m
VD167S..	V16/72	625 m	177 m	122 m	243 m	165 m	110 m

made in ger many

The KLOTZ company was founded in 1979, starting out as Europe's first specialist manufacturer of multicore, microphone and instrument cables. There followed a partnership for the manufacture of loudspeakers products which can still be found in various buildings and facilities today. These speakers, built several decades ago, bear witness to the consistent and long-standing high quality of KLOTZ products.

As the years passed new markets were unlocked and the KLOTZ development engineers produced a never-ending flood of innovative ideas – as they still do today. The company's portfolio has long moved on from the idea of "just cables", and now includes systems and solutions for football stadiums, radio and TV broadcasters, mega-hotels and even cruise ships.

New standards are continually being introduced in data transmission. KLOTZ has always been in the forefront of this field, and will remain so in the future. The KLOTZ name is synonymous with supreme quality in audio and video transmission solutions, and the company has built a worldwide reputation on this hallmark quality.

Over the years KLOTZ has carried out a host of prestigious orders on the fiercely contested instrument and microphone cable market, including cabling for the legendary Abbey Road Studios in London and signature cable models for outstanding artists like TM Stevens, Matthias Jabs (Scorpions) and Joe Bonamassa.

As growth became necessary in recent years, the company was in the fortunate position of being able to expand its Vilchband production location. The facility was upgraded to take in future-facing technologies and other aspects – including legal requirements concerning areas like energy efficiency, as well as ergonomic and people-centred workplace design.

The company continues to be in the hands of its founders. They know that KLOTZ's most important asset is its people, who have collected a vast store of knowledge and expertise over the years. Our goal is to preserve and expand that knowledge. At KLOTZ, MADE IN GERMANY is our reality – and we aim to keep it that way for the next 40 years.

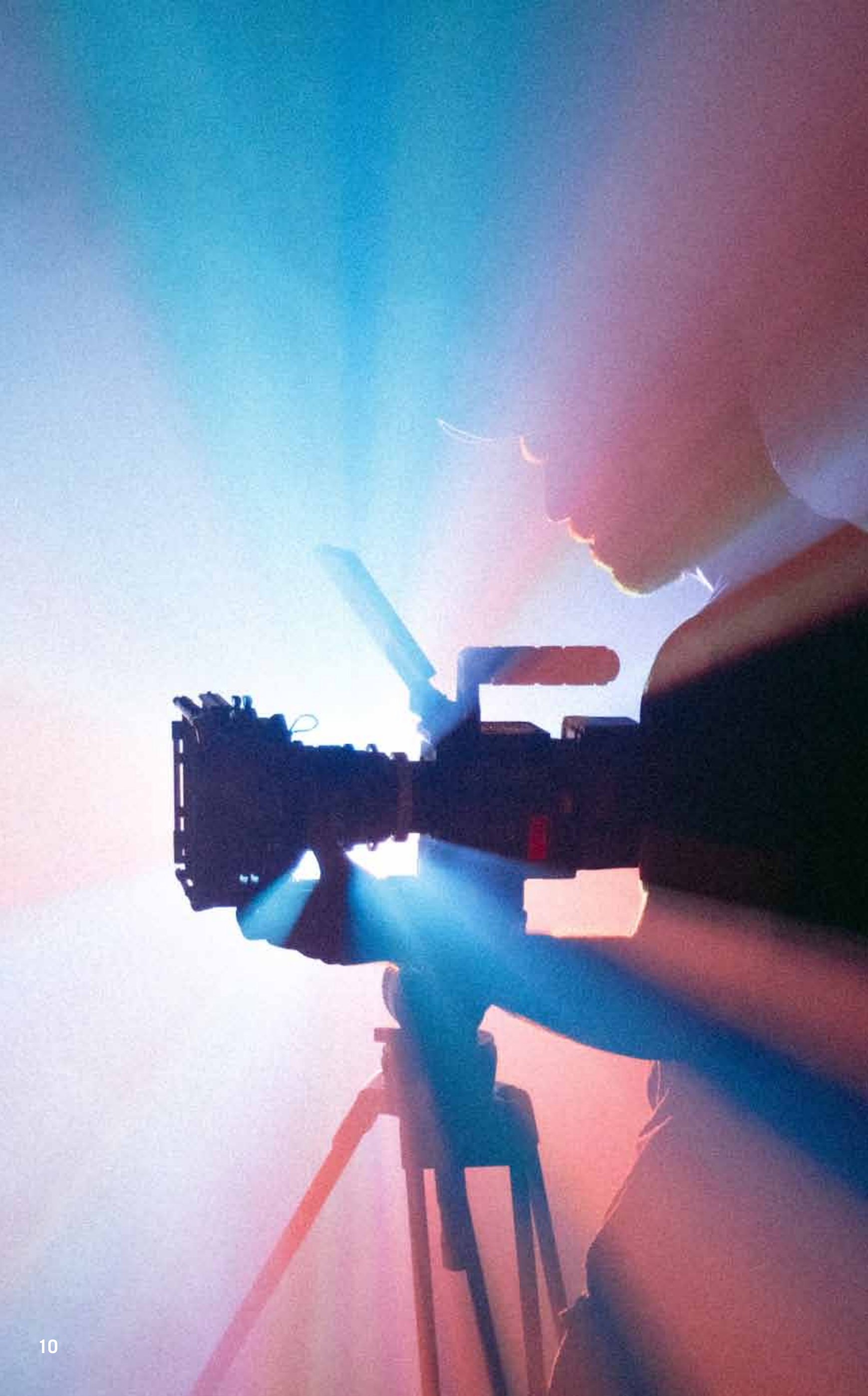


quality

The KLOTZ AIS factory is using a 6 time quality assurance for each KLOTZ cable in accordance with ISO 9001:2015.







video mobile

12G SDI mobil **D&H**

VD125LPS digital video cable

highly flexible UHD cable 1.2L/4.8 DZ
with Damar & Hagen BNCPro connectors
for HD / UHD / 12G / 4K

The BNCPro connectors from Damar & Hagen are the perfected result of many years of experience and combine mechanical robustness with excellent electrical properties. They offer permanently high operational reliability combined with convenient handling for your 12G (UHD / 4K) signals.

The significantly low return loss of -28 dB for 12G signals allows optimum utilisation of the operating length of KLOTZ video cables. Also worth mentioning is the constant contact pressure over the entire service life of at least 2000 mating cycles as well as an extreme shock and vibration resistance, ideal for tough outdoor and OB applications.

To protect the cable and ensure a consistent cable geometry as well as for colour differentiation, bend protection sleeves are available in a variety of colours and diameters.

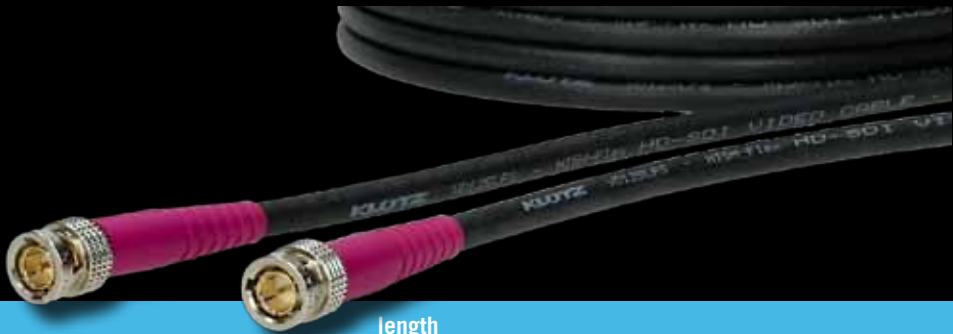
features

- BNCPro plug - BNCpro plug
- for HD / UHD / 12G / 4K
- PUR jacket (abrasion- and UV-resistant)
- extremely flexible
- especially suitable for drum storage



order

order code	length	RRP
VU12L1DP0-0050	0,5 m	37,09
VU12L1DP0-0100	1,0 m	39,69
VU12L1DP0-0200	2,0 m	44,82
VU12L1DP0-0300	3,0 m	50,02
VU12L1DP0-0500	5,0 m	60,36
VU12L1DP0-1000	10,0 m	86,14
VU12L1DP0-1500	15,0 m	111,94
VU12L1DP0-2000	20,0 m	137,74
VU12L1DP0-2500	25,0 m	163,54
VU12L1DP0-3500	35,0 m	215,13
VU12L1DP0-5000	50,0 m	292,51



order

order code	length	RRP
VU12L7DP0-0050	0,5 m	37,09
VU12L7DP0-0100	1,0 m	39,69
VU12L7DP0-0200	2,0 m	44,82
VU12L7DP0-0300	3,0 m	50,02
VU12L7DP0-0500	5,0 m	60,36
VU12L7DP0-1000	10,0 m	86,14
VU12L7DP0-1500	15,0 m	111,94
VU12L7DP0-2000	20,0 m	137,74
VU12L7DP0-2500	25,0 m	163,54
VU12L7DP0-3500	35,0 m	215,13
VU12L7DP0-5000	50,0 m	292,51



order

order code	length	RRP
VU12L9DP0-0050	0,5 m	37,09
VU12L9DP0-0100	1,0 m	39,69
VU12L9DP0-0200	2,0 m	44,82
VU12L9DP0-0300	3,0 m	50,02
VU12L9DP0-0500	5,0 m	60,36
VU12L9DP0-1000	10,0 m	86,14
VU12L9DP0-1500	15,0 m	111,94
VU12L9DP0-2000	20,0 m	137,74
VU12L9DP0-2500	25,0 m	163,54
VU12L9DP0-3500	35,0 m	215,13
VU12L9DP0-5000	50,0 m	292,51



order

order code	length	RRP
VU12LADP0-0050	0,5 m	37,09
VU12LADP0-0100	1,0 m	39,69
VU12LADP0-0200	2,0 m	44,82
VU12LADP0-0300	3,0 m	50,02
VU12LADP0-0500	5,0 m	60,36
VU12LADP0-1000	10,0 m	86,14
VU12LADP0-1500	15,0 m	111,94
VU12LADP0-2000	20,0 m	137,74
VU12LADP0-2500	25,0 m	163,54
VU12LADP0-3500	35,0 m	215,13
VU12LADP0-5000	50,0 m	292,51

HD SDI mobil **Neutrik**

VD125LPS digital video cable

highly flexible UHD HD-SDI cable for long transmission distances

The Neutrik rearTWIST HD BNC cable connector in combination with KLOTZ video cables is ideally suited for HD applications. The patented rearTWIST clamping sleeve guarantees easy handling, even with high connector density, as the connector can be rotated on the protruding bend protection sleeve. There is also the option of colour coding with different bend protection sleeves.

With low return loss values for 3G signals and excellent cable protection with strain relief, the connector is ideally suited for your HD video applications. A guide area prevents tipping due to lateral force and thus protects the contacts from bending. This guarantees a long service life of at least 1000 mating cycles.

features

- for 6G-SDI, 3G-SDI, HD-SDI
- robust PUR overall jacket
- extremely flexible
- especially suitable for drum storage



order

order code	length	RRP
VHLS1N0003	0,3 m	28,33
VHLS1N0005	0,5 m	29,36
VHLS1N0010	1,0 m	31,95
VHLS1N0020	2,0 m	37,15
VHLS1N0030	3,0 m	42,29
VHLS1N0050	5,0 m	52,62
VHLS1N0100	10,0 m	78,42
VHLS1N0150	15,0 m	104,21
VHLS1N0200	20,0 m	130,01
VHLS1N0250	25,0 m	155,81
VHLS1N0300	30,0 m	181,61
VHLS1N0350	35,0 m	207,39
VHLS1N0400	40,0 m	233,19
VHLS1N0450	45,0 m	258,99
VHLS1N0500	50,0 m	284,79
VHLS1N0600	60,0 m	349,11
VHLS1N0700	70,0 m	400,70
VHLS1N0750	75,0 m	426,50

12G SDI mobil D&H

VD125LPS digital video cable on reel

highly flexible UHD cable 1.2L/4.8 DZ with Damar & Hagen BNCPro connectors on cable drum

The BNCPro connectors from Damar & Hagen are the perfected result of many years of experience and combine mechanical robustness with excellent electrical properties. They offer permanently high operational reliability combined with convenient handling for your 12G (UHD / 4K) signals. The significantly low return loss of -28 dB for 12G signals allows optimum utilisation of the operating length of KLOTZ video cables. Also worth mentioning is the constant contact pressure over the entire service life of at least 2000 mating cycles as well as an extreme shock and vibration resistance, ideal for tough outdoor and OB applications.

To protect the cable and ensure a consistent cable geometry as well as for colour differentiation, bend protection sleeves are available in a variety of colours and diameters.

features

- BNCPro plug - BNCpro plug for HD / UHD / 12G / 4K
- PUR jacket (abrasion- and UV-resistant)
- extremely flexible
- especially suitable for drum storage

PUR

UHD 12GSDI



order

order code	length	RRP
VU12L1DPOT5000	50 m	471,31
VU12L1DPOT6000	60 m	522,91
VU12L1DPOT8000	80 m	638,61
VU12L1DPOT9500	95 m	716,00
VU12L1DPOT10000	100 m	741,80

12G SDI mobil **Neutrik**

VD125LPS digital video cable on reel

highly flexible UHD HD-SDI cable for long transmission distances on cable drum

The Neutrik rearTWIST HD BNC cable connector in combination with KLOTZ video cables is ideally suited for HD applications. The patented rearTWIST clamping sleeve guarantees easy handling, even with high connector density, as the connector can be rotated on the protruding bend protection sleeve. There is also the option of colour coding with different bend protection sleeves.

With low return loss values for 3G signals and excellent cable protection with strain relief, the connector is ideally suited for your HD video applications. A guide area prevents tipping due to lateral force and thus protects the contacts from bending. This guarantees a long service life of at least 1000 mating cycles.

features

- for 6G-SDI, 3G-SDI, HD-SDI
- robust PUR overall jacket
- extremely flexible
- especially suitable for drum storage

PUR

UHD 6GSDI



order

order code	length	RRP
VHLS1NS050	5,0 m	466,66
VHLS1NS060	6,0 m	518,26
VHLS1NS070	7,0 m	569,84
VHLS1NS075	7,5 m	608,16
VHLS1NS080	8,0 m	633,96
VHLS1NS100	10,0 m	737,15

12G SDI mobil **D&H**

VD083LP digital video cable

high flexible UHD cable 0.8/3.7 DZ for with Damar & Hagen BNCPro connectors for HD / UHD / 12G / 4K

Due to its slim design, the Damar & Hagen BNCslim connector is particularly suitable for use in confined spaces and connector panels with high densities. The grommet forms a firm connection with the plug when attached to it, so that the BNCslim can also be grasped by the handy grommet for coupling and decoupling.

The grommets are available in a variety of colours for different cable diameters. The technical features of the BNCslim connector correspond to those of the BNCPro series.

features

- BNCPro plug - BNCpro plug
- for HD / UHD / 12G / 4K
- PUR jacket (abrasion- and UV-resistant)
- extremely flexible
- especially suitable for drum storage

PUR

UHD 12GSDI



order

order code	length	RRP
VU08L1DP0-0030	0,3 m	35,72
VU08L1DP0-0050	0,5 m	36,47
VU08L1DP0-0100	1,0 m	38,46
VU08L1DP0-0200	2,0 m	42,42
VU08L1DP0-0250	2,5 m	44,41
VU08L1DP0-0300	3,0 m	46,33
VU08L1DP0-0500	5,0 m	54,26
VU08L1DP0-0750	7,5 m	64,12
VU08L1DP0-1000	10,0 m	73,97
VU08L1DP0-1500	15,0 m	93,68
VU08L1DP0-2000	20,0 m	113,38
VU08L1DP0-2500	25,0 m	133,09
VU08L1DP0-3000	30,0 m	152,80
VU08L1DP0-4000	40,0 m	192,21
VU08L1DP0-5000	50,0 m	231,62



order

order code	length	RRP
VU08L9DP0-0030	0,3 m	35,72
VU08L9DP0-0050	0,5 m	36,47
VU08L9DP0-0100	1,0 m	38,46
VU08L9DP0-0200	2,0 m	42,42
VU08L9DP0-0250	2,5 m	44,41
VU08L9DP0-0300	3,0 m	46,33
VU08L9DP0-0500	5,0 m	54,26
VU08L9DP0-0750	7,5 m	64,12
VU08L9DP0-1000	10,0 m	73,97
VU08L9DP0-1500	15,0 m	93,68
VU08L9DP0-2000	20,0 m	113,38
VU08L9DP0-2500	25,0 m	133,09
VU08L9DP0-3000	30,0 m	152,80
VU08L9DP0-4000	40,0 m	192,21
VU08L9DP0-5000	50,0 m	231,62



order

order code	length	RRP
VU08L7DP0-0030	0,3 m	35,72
VU08L7DP0-0050	0,5 m	36,47
VU08L7DP0-0100	1,0 m	38,46
VU08L7DP0-0200	2,0 m	42,42
VU08L7DP0-0250	2,5 m	44,41
VU08L7DP0-0300	3,0 m	46,33
VU08L7DP0-0500	5,0 m	54,26
VU08L7DP0-0750	7,5 m	64,12
VU08L7DP0-1000	10,0 m	73,97
VU08L7DP0-1500	15,0 m	93,68
VU08L7DP0-2000	20,0 m	113,38
VU08L7DP0-2500	25,0 m	133,09
VU08L7DP0-3000	30,0 m	152,80
VU08L7DP0-4000	40,0 m	192,21
VU08L7DP0-5000	50,0 m	231,62



order

order code	length	RRP
VU08LADPO-0030	0,3 m	35,72
VU08LADPO-0050	0,5 m	36,47
VU08LADPO-0100	1,0 m	38,46
VU08LADPO-0200	2,0 m	42,42
VU08LADPO-0250	2,5 m	44,41
VU08LADPO-0300	3,0 m	46,33
VU08LADPO-0500	5,0 m	54,26
VU08LADPO-0750	7,5 m	64,12
VU08LADPO-1000	10,0 m	73,97
VU08LADPO-1500	15,0 m	93,68
VU08LADPO-2000	20,0 m	113,38
VU08LADPO-2500	25,0 m	133,09
VU08LADPO-3000	30,0 m	152,80
VU08LADPO-4000	40,0 m	192,21
VU08LADPO-5000	50,0 m	231,62

HD SDI mobil **D&H**

VD083LP digital video cable

high flexible UHD cable 0.8/3.7 DZ for with Damar & Hagen BNCslim connectors for HD / UHD / 12G / 4K

Due to its slim design, the Damar & Hagen BNCslim connector is particularly suitable for use in confined spaces and connector panels with high densities. The grommet forms a firm connection with the plug when attached to it, so that the BNCslim can also be grasped by the handy grommet for coupling and decoupling. The grommets are available in a variety of colours for different cable diameters. The technical features of the BNCslim connector correspond to those of the BNCPro series.

features

- BNCslim plug - BNCslim plug
- for HD / UHD / 12G / 4K
- PUR jacket (abrasion- and UV-resistant)
- extremely flexible
- especially suitable for drum storage

PUR

UHD 12GSDI



order

order code	length	RRP
VU08L1DSO-0050	0,5 m	34,63
VU08L1DSO-0100	1,0 m	36,60
VU08L1DSO-0200	2,0 m	40,51
VU08L1DSO-0300	3,0 m	44,48
VU08L1DSO-0500	5,0 m	52,35
VU08L1DSO-0750	7,5 m	62,20
VU08L1DSO-1000	10,0 m	72,05
VU08L1DSO-1500	15,0 m	91,76
VU08L1DSO-2000	20,0 m	111,47
VU08L1DSO-3000	30,0 m	150,88
VU08L1DSO-4000	40,0 m	190,29
VU08L1DSO-5000	50,0 m	229,71

HD SDI mobil **Neutrik**

VD083LP digital video cable

highly flexible UHD HD-SDI cable for medium transmission distances

The Neutrik rearTWIST UHD BNC cable connector in combination with KLOTZ video cables is ideally suited for all UHD applications. The patented rearTWIST clamping sleeve guarantees easy handling, even at high connector density, as the connector can be rotated at the protruding bend protection sleeve. There is also the option of colour coding with different bend protection sleeves.

An optimised insulator and contact pin design ensure low return loss values for 4K and 8K signals. A KLOTZ video cable - rearTWIST UHD connector combination ensures ideal performance at high frequencies. With excellent cable protection and strain relief, the connector is designed to withstand at least 1000 mating cycles.

features

- for 6G-SDI, 3G-SDI, HD-SDI
- PUR jacket (abrasion- and UV-resistant)
- extremely flexible
- especially suitable for drum storage

PUR

UHD 6GSDI



order

order code	length	RRP
VH8L1N0003	0,3 m	27,92
VH8L1N0005	0,5 m	28,67
VH8L1N0010	1,0 m	30,65
VH8L1N0020	2,0 m	34,63
VH8L1N0030	3,0 m	38,52
VH8L1N0050	5,0 m	46,40
VH8L1N0100	10,0 m	66,10
VH8L1N0150	15,0 m	85,81
VH8L1N0200	20,0 m	105,52
VH8L1N0300	30,0 m	144,93
VH8L1N0500	50,0 m	223,76

12G SDI mobil D&H

VD083LP digital video cable on reel

high flexible UHD cable 0.8/3.7 DZ for with Damar & Hagen BNCPro connectors on cable drum

Due to its slim design, the Damar & Hagen BNCslim connector is particularly suitable for use in confined spaces and connector panels with high densities. The grommet forms a firm connection with the plug when attached to it, so that the BNCslim can also be grasped by the handy grommet for coupling and decoupling. The grommets are available in a variety of colours for different cable diameters. The technical features of the BNCslim connector correspond to those of the BNCPro series.

features

- BNCPro plug - BNCpro plug
- for HD / UHD / 12G / 4K
- PUR jacket (abrasion- and UV-resistant)
- extremely flexible
- especially suitable for drum storage

PUR

UHD 12GSDI



order

order code	length	RRP
VU08L1DPOT3500	35 m	327,76
VU08L1DPOT5000	50 m	386,88

12G SDI mobil **Neutrik**

VD083LP digital video cable on reel

highly flexible UHD HD-SDI cable for medium transmission distances on drum

The Neutrik rearTWIST UHD BNC cable connector in combination with KLOTZ video cables is ideally suited for all UHD applications. The patented rearTWIST clamping sleeve guarantees easy handling, even at high connector density, as the connector can be rotated at the protruding bend protection sleeve. There is also the option of colour coding with different bend protection sleeves.

An optimised insulator and contact pin design ensure low return loss values for 4K and 8K signals. A KLOTZ video cable - rearTWIST UHD connector combination ensures ideal performance at high frequencies. With excellent cable protection and strain relief, the connector is designed to withstand at least 1000 mating cycles.

features

- for 3G-SDI, HD-SDI 1.5 GBit/s + SDI 270 MBit/s
- PUR jacket (abrasion- and UV-resistant)
- extremely flexible
- especially suitable for drum storage

PUR

UHD

6GSDI



order

order code	length	RRP
VH8L1NT020	20 m	260,84
VH8L1NT030	30 m	300,25
VH8L1NT050	50 m	379,07



video installation

12G SDI installation D&H

VD104SH-E digital video cable

UHD installation cable 1.0/4.8 AF with Damar & Hagen BNCPro connectors for HD / UHD / 12G / 4K

The BNCPro connectors from Damar & Hagen are the perfected result of many years of experience and combine mechanical robustness with excellent electrical properties. They offer permanently high operational reliability combined with convenient handling for your 12G (UHD / 4K) signals.

The significantly low return loss of -28 dB for 12G signals allows optimum utilisation of the operating length of KLOTZ video cables. Also worth mentioning is the constant contact pressure over the entire service life of at least 2000 mating cycles as well as an extreme shock and vibration resistance, ideal for tough outdoor and OB applications.

To protect the cable and ensure a consistent cable geometry as well as for colour differentiation, bend protection sleeves are available in a variety of colours and diameters.

features

- BNCPro plug - BNCpro plug
- for HD / UHD / 12G / 4K
- double shielding (100% foil + 95% braid)
- flame retardant and non corrosive (FRNC)

FRNC

UHD 12GSDI



order

order code	length	RRP
VU10H1DP0-0300	3,0 m	50,29
VU10H1DP0-0500	5,0 m	55,83
VU10H1DP0-1000	10,0 m	69,52
VU10H1DP0-2000	20,0 m	97,03
VU10H1DP0-3000	30,0 m	124,53
VU10H1DP0-5000	50,0 m	179,48
VU10H1DP0-7000	70,0 m	234,43



order

order code	length	RRP
VU10H9DP0-0300	3,0 m	50,29
VU10H9DP0-0500	5,0 m	55,83
VU10H9DP0-1000	10,0 m	69,52
VU10H9DP0-2000	20,0 m	97,03
VU10H9DP0-3000	30,0 m	124,53
VU10H9DP0-5000	50,0 m	179,48
VU10H9DP0-7000	70,0 m	234,43



order

order code	length	RRP
VU10H7DP0-0300	3,0 m	50,29
VU10H7DP0-0500	5,0 m	55,83
VU10H7DP0-1000	10,0 m	69,52
VU10H7DP0-2000	20,0 m	97,03
VU10H7DP0-3000	30,0 m	124,53
VU10H7DP0-5000	50,0 m	179,48
VU10H7DP0-7000	70,0 m	234,43



order

order code	length	RRP
VU10HADP0-0300	3,0 m	50,29
VU10HADP0-0500	5,0 m	55,83
VU10HADP0-1000	10,0 m	69,52
VU10HADP0-2000	20,0 m	97,03
VU10HADP0-3000	30,0 m	124,53
VU10HADP0-5000	50,0 m	179,48
VU10HADP0-7000	70,0 m	234,43

12G SDI installation D&H

VD083SH-E digital video cable

UHD patch cable 0.8/3.7 AF with Damar & Hagen BNCslim connectors for HD / UHD / 12G / 4K

Due to its slim design, the Damar & Hagen BNCslim connector is particularly suitable for use in confined spaces and connector panels with high densities. The grommet forms a firm connection with the plug when attached to it, so that the BNCslim can also be grasped by the handy grommet for coupling and decoupling.

The grommets are available in a variety of colours for different cable diameters. The technical features of the BNCslim connector correspond to those of the BNCPro series.

features

- BNCslim plug - BNCslim plug
- for HD / UHD / 12G / 4K
- double shielding (100% foil + 90% braid)
- flame retardant and non corrosive (FRNC)

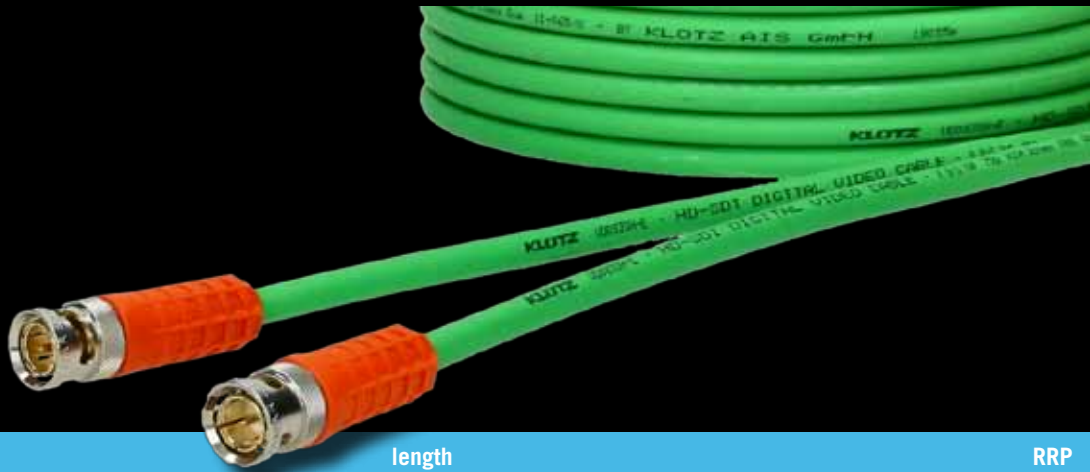
FRNC

UHD 12GSDI



order

order code	length	RRP
VU08H1DS0-0050	0,5 m	41,33
VU08H1DS0-0100	1,0 m	42,42
VU08H1DS0-0200	2,0 m	44,68
VU08H1DS0-0300	3,0 m	46,87
VU08H1DS0-0500	5,0 m	51,32
VU08H1DS0-0750	7,5 m	56,86
VU08H1DS0-1000	10,0 m	62,40
VU08H1DS0-1500	15,0 m	73,49
VU08H1DS0-2000	20,0 m	84,57
VU08H1DS0-2500	25,0 m	95,66
VU08H1DS0-3000	30,0 m	106,74
VU08H1DS0-5000	50,0 m	151,08
VU08H1DS0-6000	60,0 m	173,25



order

order code	length	RRP
VU08H9DSO-0050	0,5 m	41,33
VU08H9DSO-0100	1,0 m	42,42
VU08H9DSO-0200	2,0 m	44,68
VU08H9DSO-0300	3,0 m	46,87
VU08H9DSO-0500	5,0 m	51,32
VU08H9DSO-0750	7,5 m	56,86
VU08H9DSO-1000	10,0 m	62,40
VU08H9DSO-1500	15,0 m	73,49
VU08H9DSO-2000	20,0 m	84,57
VU08H9DSO-2500	25,0 m	95,66
VU08H9DSO-3000	30,0 m	106,74
VU08H9DSO-5000	50,0 m	151,08
VU08H9DSO-6000	60,0 m	173,25



order

order code	length	RRP
VU08HADS0-0050	0,5 m	41,33
VU08HADS0-0100	1,0 m	42,42
VU08HADS0-0200	2,0 m	44,68
VU08HADS0-0300	3,0 m	46,87
VU08HADS0-0500	5,0 m	51,32
VU08HADS0-0750	7,5 m	56,86
VU08HADS0-1000	10,0 m	62,40
VU08HADS0-1500	15,0 m	73,49
VU08HADS0-2000	20,0 m	84,57
VU08HADS0-2500	25,0 m	95,66
VU08HADS0-3000	30,0 m	106,74
VU08HADS0-5000	50,0 m	151,08
VU08HADS0-6000	60,0 m	173,25

HD SDI installation

Neutrik

VD083SH-E digital video cable

HD-SDI patch cable 0.8/3.7 AF
with Neutrik BNC connectors

The Neutrik rearTWIST HD BNC cable connector in combination with KLOTZ video cables is ideally suited for HD applications. The patented rearTWIST clamping sleeve guarantees easy handling, even with high connector density, as the connector can be rotated on the protruding bend protection sleeve. There is also the option of colour coding with different bend protection sleeves.

With low return loss values for 3G signals and excellent cable protection with strain relief, the connector is ideally suited for your HD video applications. A guide area prevents tipping due to lateral force and thus protects the contacts from bending. This guarantees a long service life of at least 1000 mating cycles.

features

- digital + analog video
- double shielding (100% foil + 90% braid)
- flame retardant and non corrosive (FRNC)

FRNC

UHD

6GSDI



order

order code	length	RRP
VH8H1N0010	1,0 m	30,38
VH8H1N0015	1,5 m	31,48
VH8H1N0030	3,0 m	34,63
VH8H1N0050	5,0 m	38,79
VH8H1N0100	10,0 m	49,34
VH8H1N0150	15,0 m	59,87
VH8H1N0200	20,0 m	70,41
VH8H1N0300	30,0 m	91,49
VH8H1N0500	50,0 m	133,64
VH8H1N1000	100,0 m	256,46



order

order code	length	RRP
VH8H9N0010	1,0 m	30,38
VH8H9N0015	1,5 m	31,48
VH8H9N0030	3,0 m	34,63
VH8H9N0050	5,0 m	38,79
VH8H9N0100	10,0 m	49,34
VH8H9N0150	15,0 m	59,87
VH8H9N0200	20,0 m	70,41
VH8H9N0300	30,0 m	91,49
VH8H9N0500	50,0 m	133,64
VH8H9N1000	100,0 m	256,46

12G SDI installation D&H

VD062SH-E digital video cable

UHD patch cable 0.6/2.8 AF for with Damar & Hagen BNCslim connectors for HD / UHD / 12G / 4K

Due to its slim design, the Damar & Hagen BNCslim connector is particularly suitable for use in confined spaces and connector panels with high densities. The grommet forms a firm connection with the plug when attached to it, so that the BNCslim can also be grasped by the handy grommet for coupling and decoupling.

The grommets are available in a variety of colours for different cable diameters. The technical features of the BNCslim connector correspond to those of the BNCPro series.

features

- BNCslim plug - BNCslim plug
- for HD / UHD / 12G / 4K
- double shielding (100% foil + 90% braid)
- flame retardant and non corrosive (FRNC)

FRNC

UHD 12GSDI



order

order code	length	RRP
VU06H1DS0-0050	0,5 m	40,98
VU06H1DS0-0100	1,0 m	41,75
VU06H1DS0-0200	2,0 m	43,24
VU06H1DS0-0300	3,0 m	44,76
VU06H1DS0-0500	5,0 m	47,77
VU06H1DS0-1000	10,0 m	55,29
VU06H1DS0-1500	15,0 m	62,82
VU06H1DS0-2000	20,0 m	70,34
VU06H1DS0-2500	25,0 m	77,87
VU06H1DS0-3000	30,0 m	85,39
VU06H1DS0-4000	40,0 m	100,45



order

order code	length	RRP
VU06H9DS0-0050	0,5 m	40,98
VU06H9DS0-0100	1,0 m	41,75
VU06H9DS0-0200	2,0 m	43,24
VU06H9DS0-0300	3,0 m	44,76
VU06H9DS0-0500	5,0 m	47,77
VU06H9DS0-1000	10,0 m	55,29
VU06H9DS0-1500	15,0 m	62,82
VU06H9DS0-2000	20,0 m	70,34
VU06H9DS0-2500	25,0 m	77,87
VU06H9DS0-3000	30,0 m	85,39
VU06H9DS0-4000	40,0 m	100,45

HD SDI installation Neutrik

VD062SH-E digital video cable

HD-SDI patch cable 0.6/2.8 AF with Neutrik BNC connectors

The Neutrik rearTWIST HD BNC cable connector in combination with KLOTZ video cables is ideally suited for HD applications. The patented rearTWIST clamping sleeve guarantees easy handling, even with high connector density, as the connector can be rotated on the protruding bend protection sleeve. There is also the option of colour coding with different bend protection sleeves.

With low return loss values for 3G signals and excellent cable protection with strain relief, the connector is ideally suited for your HD video applications. A guide area prevents tipping due to lateral force and thus protects the contacts from bending. This guarantees a long service life of at least 1000 mating cycles.

features

- digital + analog video
- double shielding (100% foil + 90% braid)
- flame retardant and non corrosive (FRNC)

FRNC

UHD

6GSDI



order

order code	length	RRP
VH6H1N0003	0,3 m	27,85
VH6H1N0004	0,4 m	27,99
VH6H1N0005	0,5 m	28,12
VH6H1N0006	0,6 m	28,26
VH6H1N0008	0,8 m	28,61
VH6H1N0010	1,0 m	28,88
VH6H1N0020	2,0 m	30,38
VH6H1N0030	3,0 m	31,89
VH6H1N0050	5,0 m	34,90
VH6H1N0060	6,0 m	36,40
VH6H1N0100	10,0 m	42,40
VH6H1N0150	15,0 m	49,96
VH6H1N0200	20,0 m	57,48
VH6H1N0300	30,0 m	72,53



order

order code	length	RRP
VH6H9N0003	0,3 m	29,49
VH6H9N0004	0,4 m	29,63
VH6H9N0005	0,5 m	29,76
VH6H9N0006	0,6 m	29,98
VH6H9N0008	0,8 m	30,25
VH6H9N0010	1,0 m	30,52
VH6H9N0020	2,0 m	32,02
VH6H9N0030	3,0 m	33,53
VH6H9N0050	5,0 m	36,54
VH6H9N0060	6,0 m	38,04
VH6H9N0100	10,0 m	44,07
VH6H9N0150	15,0 m	51,60
VH6H9N0200	20,0 m	59,12
VH6H9N0300	30,0 m	74,17

12G SDI installation D&H

VD042LT digital video cable

ultra thin UHD patch cable for HD / UHD / 12G / 4K for HD / UHD / 12G / 4K

The Damar & Hagen BNCmicro connector is 50% smaller and therefore lighter than a standard BNC connector. It has been developed with D & H's years of experience in the field of BNC connectors and, together with video cables from KLOTZ, offers a perfect result for your HD, UHD, 4K and 8k video signals. The BNCmicro is characterised by its robustness as well as its long service life of at least 1000 mating cycles. This connector is often used with modern equipment such as routers, distribution amplifiers or converters with multiple BNC connections or SFP modules.

features

- BNCslim plug - BNCslim plug
- for HD / UHD / 12G / 4K
- very compact cable, Ø 2.9 mm, extremely flexible
- stranded inner conductor, double shielded (foil + braid screen)
- TPE outer jacket

TPE

UHD 12GSDI



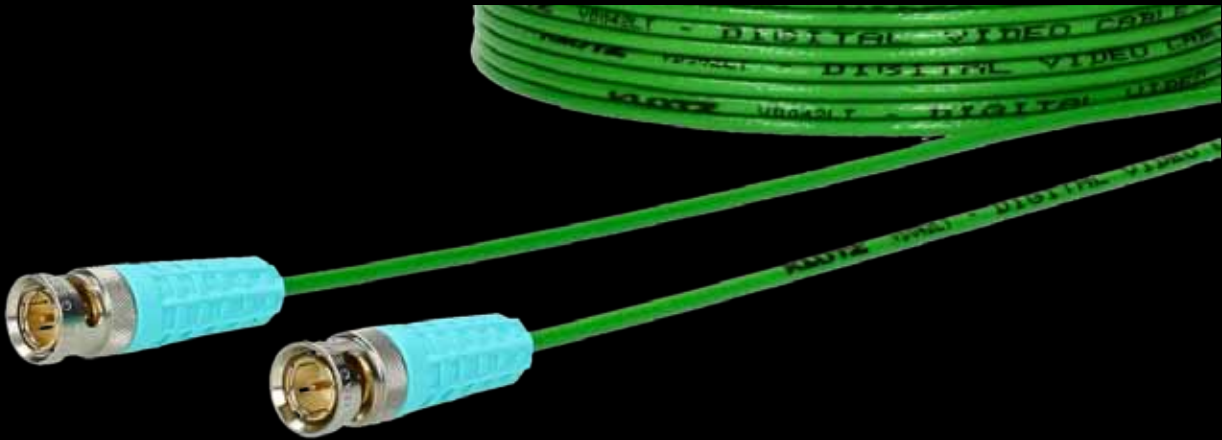
order

order code	length	RRP
VU05H1DS0-0030	0,3 m	36,88
VU05H1DS0-0060	0,6 m	37,43
VU05H1DS0-0100	1,0 m	38,12
VU05H1DS0-0200	2,0 m	39,89
VU05H1DS0-0300	3,0 m	41,20
VU05H1DS0-0500	5,0 m	45,16
VU05H1DS0-1000	10,0 m	53,99



order

order code	length	RRP
VU05H9DSO-0030	0,3 m	36,88
VU05H9DSO-0060	0,6 m	37,43
VU05H9DSO-0100	1,0 m	38,12
VU05H9DSO-0200	2,0 m	39,89
VU05H9DSO-0300	3,0 m	41,20
VU05H9DSO-0500	5,0 m	45,16
VU05H9DSO-1000	10,0 m	53,99



order

order code	length	RRP
VU05HADS0-0030	0,3 m	36,88
VU05HADS0-0060	0,6 m	37,43
VU05HADS0-0100	1,0 m	38,12
VU05HADS0-0200	2,0 m	39,89
VU05HADS0-0300	3,0 m	41,20
VU05HADS0-0500	5,0 m	45,16
VU05HADS0-1000	10,0 m	53,99

HD SDI installation **Neutrik**

VD042LT digital video cable

ultra thin HD-SDI patch cable

The Neutrik rearTWIST HD BNC cable connector in combination with KLOTZ video cables is ideally suited for HD applications. The patented rearTWIST clamping sleeve guarantees easy handling, even with high connector density, as the connector can be rotated on the protruding bend protection sleeve. There is also the option of colour coding with different bend protection sleeves.

With low return loss values for 3G signals and excellent cable protection with strain relief, the connector is ideally suited for your HD video applications. A guide area prevents tipping due to lateral force and thus protects the contacts from bending. This guarantees a long service life of at least 1000 mating cycles.

features

- very compact cable, Ø 2.9 mm, extremely flexible
- stranded inner conductor, double shielded (foil + braid screen)
- TPE outer jacket

TPE

UHD

6GSDI



order

order code	length	RRP
VSLD1N0003	0,3 m	42,77
VSLD1N0005	0,5 m	43,11
VSLD1N0010	1,0 m	43,99
VSLD1N0020	2,0 m	45,78





video multicore cables



12G SDI multicore D&H

VD7062SP 7-fold digital video multicore cable

UHD 7-fold cable 0.6/2.8 for with Damar & Hagen BNCslim connectors for HD / UHD / 12G / 4K

Due to its slim design, the Damar & Hagen BNCslim connector is particularly suitable for use in confined spaces and connector panels with high densities. The grommet forms a firm connection with the plug when attached to it, so that the BNCslim can also be grasped by the handy grommet for coupling and decoupling.

The grommets are available in a variety of colours for different cable diameters. The technical features of the BNCslim connector correspond to those of the BNCPro series.

features

- perfect for outside broadcast and temporary installations
- Damar & Hagen UHD BNCslim connectors
- for HD / UHD / 12G / 4K
- double shielding (100% foil + 92% braid)
- especially robust and cold elastic
- PUR jacket (abrasion- and UV-resistant)
- element jacket in PVC
- element colors: red, green, blue, black, white, yellow, orange

PVC

UHD 12GSDI



order

order code	length	RRP
VUM7X1DS2-0500	5,0 m	394,27
VUM7X1DS2-1000	10,0 m	487,94
VUM7X1DS2-1500	15,0 m	581,68
VUM7X1DS2-2000	20,0 m	675,36
VUM7X1DS2-2500	25,0 m	769,10
VUM7X1DS2-3000	30,0 m	862,77
VUM7X1DS2-3500	35,0 m	956,51
VUM7X1DS2-4000	40,0 m	1.050,19

12G SDI multicore Neutrik

VD7062SP 7-fold digital video multicore cable

UHD 7-fold cable 0.6/2.8 for with Neutrik® UHD BNC connectors for HD / UHD / 12G / 4K

The Neutrik rearTWIST UHD BNC cable connector in combination with KLOTZ video cables is ideally suited for all UHD applications. The patented rearTWIST clamping sleeve guarantees easy handling, even at high connector density, as the connector can be rotated at the protruding bend protection sleeve. There is also the option of colour coding with different bend protection sleeves.

An optimised insulator and contact pin design ensure low return loss values for 4K and 8K signals. A KLOTZ video cable - rearTWIST UHD connector combination ensures ideal performance at high frequencies. With excellent cable protection and strain relief, the connector is designed to withstand at least 1000 mating cycles.

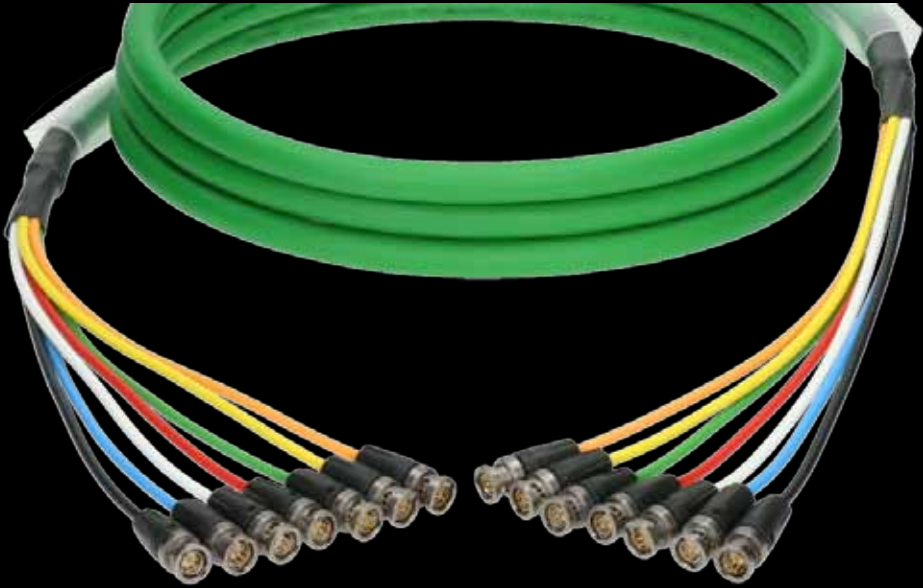
features

- perfect for outside broadcast and temporary installations
- Neutrik® UHD BNC connector
- for HD / UHD / 12G / 4K
- double shielding (100% foil + 92% braid)
- especially robust and cold elastic
- PUR jacket (abrasion- and UV-resistant)
- element jacket in PVC
- element colors: red, green, blue, black, white, yellow, orange

PUR

UHD

12GSDI



order

order code	length	RRP
VUM7X1NU2-0500	5,0 m	340,01
VUM7X1NU2-1000	10,0 m	433,68
VUM7X1NU2-1500	15,0 m	527,42
VUM7X1NU2-2000	20,0 m	621,10
VUM7X1NU2-2500	25,0 m	714,83
VUM7X1NU2-3000	30,0 m	808,51
VUM7X1NU2-3500	35,0 m	902,26
VUM7X1NU2-4000	40,0 m	995,92



video adapter

12G SDI Adapter D&H

VD062SH-E digital video cable

UHD adapter cable for HD / UHD / 12G / 4K

The Damar & Hagen DIN 1.0/2.3 connector combines proven know-how with outstanding quality. Thanks to excellent electrical properties, these coaxial connectors can be used up to a frequency of 6 GHz without reservation and are ideally suited for HD and UHD signals, not only on routers and converters.

features

- BNCPro male – DIN 1,0/2,3 plug (DIN 47297)
- for HD / UHD / 12G / 4K
- double shielding (100% foil + 90% braid)
- flame retardant and non corrosive (FRNC)

FRNC

UHD12GSDI



order

order code	length	RRP
VU06H9DPD0-0030	0,3 m	50,71
VU06H9DPD0-0060	0,6 m	51,18
VU06H9DPD0-0100	1,0 m	51,73
VU06H9DPD0-0200	2,0 m	53,24
VU06H9DPD0-0300	3,0 m	54,74
VU06H9DPD0-0500	5,0 m	57,75
VU06H9DPD0-0600	6,0 m	59,26
VU06H9DPD0-0700	7,0 m	60,76
VU06H9DPD0-1000	10,0 m	65,28



order

order code	length	RRP
VU06H9DPM0-0030	0,3 m	41,40
VU06H9DPD0-0060	0,6 m	41,80
VU06H9DPD0-0100	1,0 m	42,42
VU06H9DPD0-0200	2,0 m	43,93
VU06H9DPD0-0300	3,0 m	45,43
VU06H9DPD0-0500	5,0 m	48,44
VU06H9DPD0-0600	6,0 m	49,96
VU06H9DPD0-0700	7,0 m	51,46
VU06H9DPD0-1000	10,0 m	55,98

features

- BNCPro female - BNC micro (plug compatible with HD-BNC™)
- for HD / UHD / 12G / 4K
- double shielding (100% foil + 90% braid)
- flame retardant and non corrosive (FRNC)

FRNC

UHD 12GSDI



order

order code	length	RRP
VU06H9DFM0-0030	0,3 m	42,49
VU06H9DFM0-0060	0,6 m	42,97
VU06H9DFM0-0100	1,0 m	43,59
VU06H9DFM0-0200	2,0 m	45,09

features

- BNCPro female - DIN 1,0/2,3 plug (DIN 47297)
- for HD / UHD / 12G / 4K
- double shielding (100% foil + 90% braid)
- flame retardant and non corrosive (FRNC)

FRNC

UHD 12GSDI



order

order code	length	RRP
VU06HADFD1-0030	0,3 m	40,71
VU06HADFD1-0060	0,6 m	41,13
VU06HADFD1-0100	1,0 m	41,75
VU06HADFD1-0200	2,0 m	43,24

features

- BNCPro female - BNC micro (plug compatible with HD-BNC™)
- for HD / UHD / 12G / 4K / 8K
- very compact cable, Ø 2.9 mm, extremely flexible
- stranded inner conductor, double shielded (foil + braid screen)
- TPE outer jacket

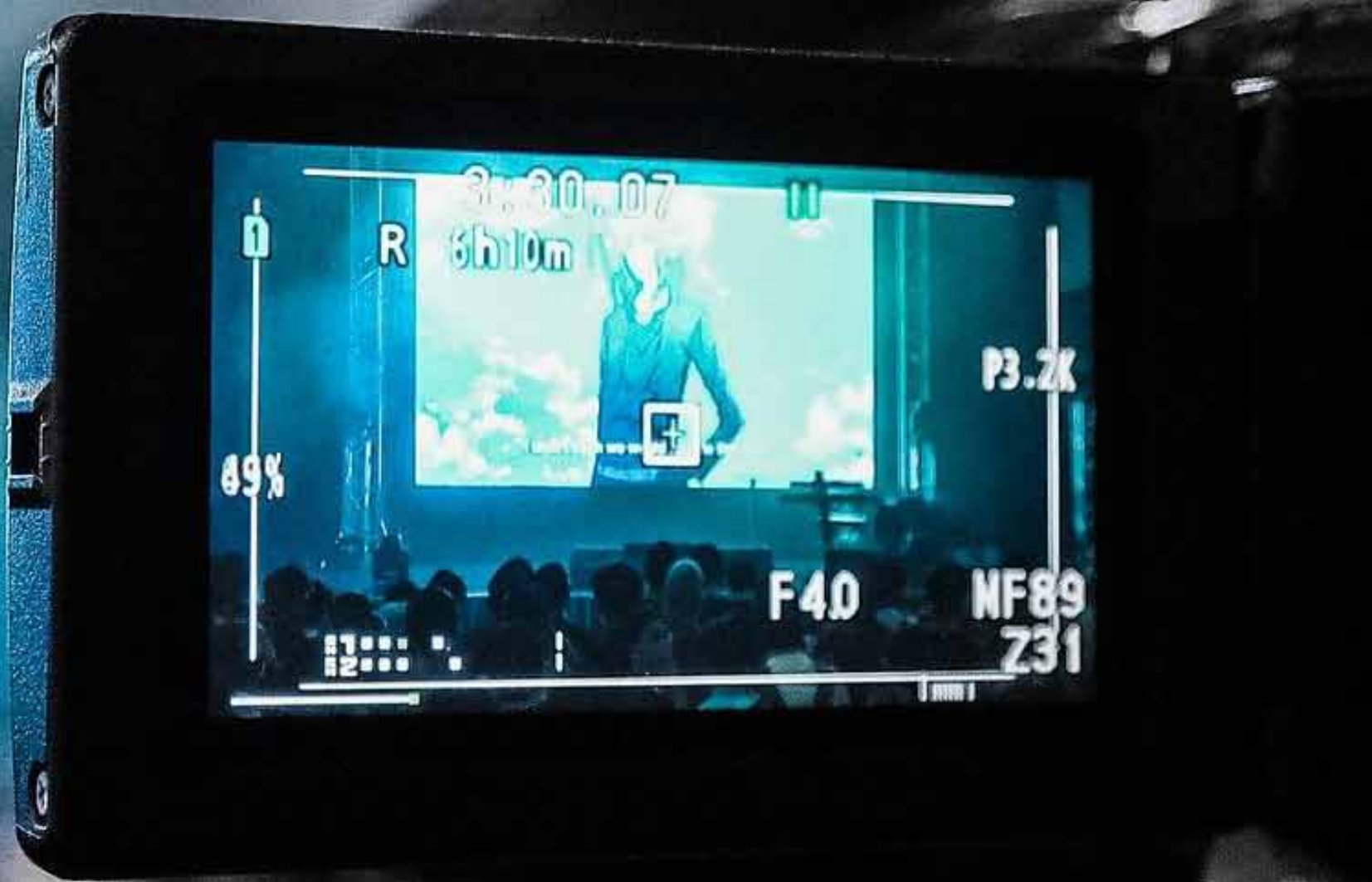
TPE

UHD 12GSDI



order

order code	length	RRP
VU05H9DFM0-0030	0,3 m	38,66
VU05H9DFM0-0060	0,6 m	39,14
VU05H9DFM0-0100	1,0 m	39,83



video hybrid cables



12G SDI hybrid **Neutrik**

HV2P15P video + power cable

2 x HD-SDI and power hybrid cable with UHD BNC and schuko

The Neutrik rearTWIST HD BNC cable connector in combination with KLOTZ video cables is ideally suited for HD applications. The patented rearTWIST clamping sleeve guarantees easy handling, even with high connector density, as the connector can be rotated on the protruding bend protection sleeve. There is also the option of colour coding with different bend protection sleeves.

With low return loss values for 3G signals and excellent cable protection with strain relief, the connector is ideally suited for your HD video applications. A guide area prevents tipping due to lateral force and thus protects the contacts from bending. This guarantees a long service life of at least 1000 mating cycles.

features

- video cable suitable for mobile HD-SDI
- for 3G-SDI, HD-SDI 1.5 GBit/s + SDI 270 MBit/s
- Schuko rubber socket with protective cover, black
- power cable: 3 x 1.5 mm²
- suitable for connecting monitors with HD-SDI inputs and power supply via a single cable

PUR

UHD 6GSDI



order

order code	length	RRP
V-2PTU-010	10,0 m	405,81
V-2PTU-015	15,0 m	537,81
V-2PTU-020	20,0 m	669,80
V-2PTU-025	25,0 m	801,80
V-2PTU-030	30,0 m	933,79
V-2PTU-040	40,0 m	1.197,78
V-2PTU-050	50,0 m	1.461,77

12G SDI hybrid **D&H**

HV2RC5SB1 video + CAT cable

mobile hybrid cable with BNCPro connectors 2 x HD/UHD-SDI video + RamCAT5-solid

The BNCPro connectors from Damar & Hagen are the perfected result of many years of experience and combine mechanical robustness with excellent electrical properties. They offer permanently high operational reliability combined with convenient handling for your 12G (UHD / 4K) signals.

The significantly low return loss of -28 dB for 12G signals allows optimum utilisation of the operating length of KLOTZ video cables. Also worth mentioning is the constant contact pressure over the entire service life of at least 2000 mating cycles as well as an extreme shock and vibration resistance, ideal for tough outdoor and OB applications.

To protect the cable and ensure a consistent cable geometry as well as for colour differentiation, bend protection sleeves are available in a variety of colours and diameters.

features

- BNCPro plug - BNCpro plug
- etherCON - etherCON
- for HD / UHD / 12G / 4K
- for 1GBase-T; AES67 / Ravenna / MAD1/ EtherSound™
- robust PVC outer jacket
- for mobile use

PVC

UHD 12GSDI



order

order code	length	RRP
HUV2RKDPE1-0500	5,0 m	339,82
HUV2RKDPE1-1000	10,0 m	473,22
HUV2RKDPE1-2500	25,0 m	873,41
HUV2RKDPE1-3000	30,0 m	1.006,81
HUV2RKDPE1-5000	50,0 m	1.540,41
HUV2RKDPE1-7500	75,0 m	2.207,40
HUV2RKDPE1-9500	95,0 m	2.741,00

12G SDI hybrid D&H

HV2RC5SB1 video + CAT cable

mobile hybrid cable with BNCPro connectors
2 x HD/UHD-SDI video + RamCAT5-solid

The BNCPro connectors from Damar & Hagen are the perfected result of many years of experience and combine mechanical robustness with excellent electrical properties. They offer permanently high operational reliability combined with convenient handling for your 12G (UHD / 4K) signals.

The significantly low return loss of -28 dB for 12G signals allows optimum utilisation of the operating length of KLOTZ video cables. Also worth mentioning is the constant contact pressure over the entire service life of at least 2000 mating cycles as well as an extreme shock and vibration resistance, ideal for tough outdoor and OB applications.

To protect the cable and ensure a consistent cable geometry as well as for colour differentiation, bend protection sleeves are available in a variety of colours and diameters.

features

- BNCPro plug - BNCpro plug
- RJ45 - RJ45
- for HD / UHD / 12G / 4K
- for 1GBase-T; AES67 / Ravenna / MADI/ EtherSound™
- robust PVC outer jacket
- for mobile use

PVC

UHD

12GSDI



order

order code	length	RRP
HUV2RKDPRO-0500	5,0 m	311,73
HUV2RKDPRO-1000	10,0 m	445,13
HUV2RKDPRO-2500	25,0 m	845,33
HUV2RKDPRO-3000	30,0 m	978,73
HUV2RKDPRO-5000	50,0 m	1.512,32
HUV2RKDPRO-7500	75,0 m	2.179,32
HUV2RKDPRO-9500	95,0 m	2.712,91



environment responsibility

As an internationally operating company, we believe that responsibility for our environment and conservation of resources is our task and our duty for the present and future generations.

As manufacturers of outstanding ground-breaking products, we have adopted a pioneering role in environmental protection and conservation as a matter of utmost priority. In our view, the use of low-toxicity raw materials and the minimization of our ecological footprint is not only an urgent necessity, but also an honourable duty.

We therefore introduced compliance with the terms of the EU's RoHS (Restriction of Hazardous Substances in Electrical and Electronic Equipment) directive in our company many years ago, long before it actually came into force; our suppliers can vouch for the RoHS compliance of the connectors we use.

We have significantly lowered our carbon emissions (with certificate), and ensured that our new production hall has improved insulation in line with the German Energy Saving Ordinance ENEC from 2009.

These measures ensure that we contribute towards protecting the environment.

The RoHS Directive, or the directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment 2002/95/EC' was adopted in January 2003 by the European Parliament and European Council and was implemented into German national law in March 2005.

The aim of the Directive is to minimize risks to people and the environment by reducing toxins in the production, use and disposal of electrical and electronic

products. It has therefore prohibited the use of lead and other toxic heavy metals including mercury, cadmium and hexavalent chrome and of flame-retardants such as PBB (polybrominated biphenyls) and PBDE (polybrominated diphenylether) in electrical and electronic products such as household appliances,

IT and telecommunications devices and consumer electronics.







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