



### HD-SDI - high-flex video cable 0.8L/3.7 DZ - PUR

- flexible stranded inner conductor
- very dense double tinned copper braid
- suitable for mobile HD-SDI use
- robust PUR jacket

PUR

UHD  
12GUHD  
4K

Pro users are always asking us whether we can supply a video cable that's optimized for short to medium distances. It should have a low external diameter as well as being highly flexible, suitable for drum storage, and rugged enough to cope with frequent patching. All these enquiries inspired us to design the VD083LP – the ideal cable for mobile transmission of digital video signals over distances up to 70 m. The outer PUR jacket is extra-rugged and abrasion- and notch-resistant, providing outstanding protection for what goes on inside. The ultra-finely stranded conductor is enclosed in physically foamed dielectric medium covered with a dual-layer braided copper shield that provides over 98% protection from interference. In line with SMPTE standards, the VD083LP transmits a 1.5-GB signal over distances of up to 70 m, and a 3-GB signal up to 50 m – or even more in practice, depending on the transmitter and signal frequency! And incidentally, the VD083LP is the “little brother” of our famous and universally appreciated VD125LPS for long distances.

#### design

inner conductor	stranded bare copper, 19x 0.16 mm
insulation	gas injected foam PE, Ø 3.7 mm
shielding	2x tinned copper braid, >95% coverage
outer jacket	PUR
overall diameter	6.1 mm

#### mechanics

operating temperature	-40°C / +70°C
min. bending radius	
installed	4x overall diameter
mobile use	8x overall diameter
no hazardous substances	acc. to EU directive RoHS 2011/65/EU from 08.06.2011
REACH conformity	acc. to REACH regulation 1907/2006
CE conformity	acc. to EU directive LVD 2014/35/EU
halogen-free	acc. to IEC 60754-1
non corrosive	acc. to IEC 60754-2
flame retardancy	acc. to IEC 60332-1-2
heat of combustion	0,18 kWh/m

#### electric

characteristic impedance	75 Ω
capacity	54 pF/m
velocity of propagation	81 %
DC resistance	
outer conductor	7.6 Ω/km
screening attenuation	> 90 dB
nom. attenuation [dB/100m]	
1 MHz	0.9
5 MHz	2.0
10 MHz	2.8
71.5 MHz	8.4
88.5 MHz	9.4
100 MHz	10.0
135 MHz	11.7
180 MHz	13.3
270 MHz	16.5
360 MHz	19.3
540 MHz	23.7
750 MHz	29.6
1000 MHz	34.4
1500 MHz	43.2
3000 MHz	64.1
6000 MHz	98.8
12000 MHz	168.4
return loss	
30 - 300 MHz	> 24 dB
300 - 1500 MHz	> 22 dB
1500 - 6000 MHz	> 15 dB

order code	ref. type	cable color	weight kg/m	standard lengths m
VD083LP	V08L37DZ	black	0,064	50 / 100 / 200 / 300 / 500

technical specifications are subject to change