



HD-SDI - flexible video cable - Low Loss

1.2L/4.8 DZ - PUR

- flexible stranded inner conductor
- very dense double tinned copper braid
- very low attenuation (HD-SDI up to 100 m)
- suitable for mobile HD-SDI use
- robust PUR jacket

PUR

UHD

12GSDI

The ideal choice for all applications needing a rugged video cable for outdoor use, the V12L48DP is designed for harsh conditions on the road and is ideal for mobile transmission of HD-SDI signals. Thanks to its ultra-low signal attenuation, it complies with SMPTE standards by offering transmission distances of 375 metres for SDI video signals, 100 metres for a 1.5 HD-SDI GBit/s signal and 70 metres for 3.0 GBit/s – powerful performance that is unique to this cable. The sophisticated design features flexible copper stranded core, physically foamed PE dielectric medium, a shield of two ultra-dense braided copper layers and an extremely rugged PUR jacket, and is specifically aimed at the maximum flexibility and durability for mobile outdoor and stage use. The V12L48DP can even handle a temperature range of -40°C to +85°C; its outer jacket is resistant to high and low temperatures, abrasion, notching and tear propagation.

construction

inner conductor	stranded bare copper, 7 x 0.40 mm
insulation	gas injected foam PE, Ø 4.8 mm
shielding	2x tinned copper braid, >95% coverage
outer jacket	PUR
overall diameter	7.1 mm

mechanics

working temperature	-40°C / +80°C
min. bending radius	
installation	55 mm
operation	70 mm
flame retardancy	acc. to IEC 60332-1-2
halogen-free	acc. to IEC 60754-1

electric

characteristic impedance	75 Ω ± 3%
capacity	54 pF/m
velocity of propagation	86 %
DC resistance	
inner conductor	21 Ω/km
outer conductor	5 Ω/km
screening attenuation	> 90 dB
nom. attenuation [dB/100m]	
1 MHz	0.4
10 MHz	2.1
100 MHz	6.8
135 MHz	7.8
200 MHz	9.6
500 MHz	15.7
750 MHz	19.6
1000 MHz	23.4
1500 MHz	29.5
3000 MHz	44.4
6000 MHz	70.2
12000 MHz	128.7
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
VD125LPS	V12L48DP	black	0.07	50 / 100 / 200 / 300 / 500

technical specifications are subject to change