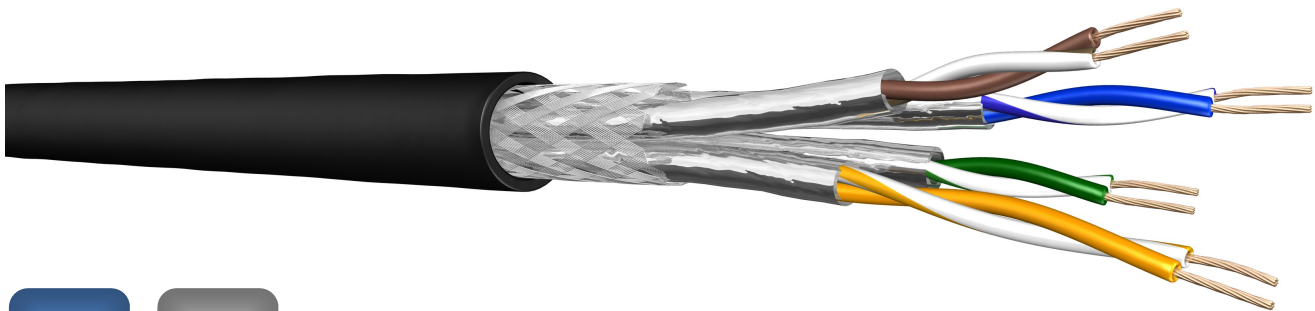


# Media Flex Outdoor 10Gig MFO 23 Studio Broadcast and MI



## Application

This cable is a Cat 7 S/FTP patch cable for mobile application in tougher electrical and mechanical environment, designed for outside broadcast, MI and stage.

Suitable for Video Ethernet; IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;  
IEEE 802.5 16 MB; ISDN; FDDI; ATM

For outside use, not suitable for laying directly in the ground, UV stabilized, halogen free

**Not for fixed installation for construction works**

Interface/Protokoll	Transmission length's [m]
AES50	120
MADI HD	120
Riedel RockNet	140
AES 3 -2003 (48kHz, 96kHz)	240

## Standards

EIA/TIA 568B;  
ISO/IEC 11801 2<sup>nd</sup> ed.; IEC 61156-6, IEC 61156-7  
EN 50173; EN 50288-4-2 Power over Ethernet(PoE/PoE+)

## Connector

Neutrik Ethercon

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## Construction

Inner conductor	Stranded copper wire, bare, (AWG23/7)	Ø 0,64mm
Insulation	Foam-Skin PE,	Ø 1.6mm
Twisting	2 cores to the pair	
Pair screen	Al-laminated plastic foil	
Cable lay up	4 pairs (PimF) to the core	
Screen	Copper braid tinned	
wrapping	Polyester web	
Sheath	DMC FLEX PUR, black, RAL 9005	Ø 9.3 mm
Printing	DRAKA <b>MFO 23</b> MEDIA FLEX OUTDOOR 10Gig batch number + meter marking	

## Mechanical properties

Minimum bending radius	without load	8 x D
	with load	4 x D
Temperature range	During operation	-40°C to + 80°C
	During installation	-5°C to + 50°C

## Electrical properties

at 20°C

Characteristic impedance	@ 100 MHz	100 ± 5 Ω
Loop resistance	max.	11Ω/km
Resistance unbalance	max.	2%
Propagation delay		450 ns/100m
Delay skew	max.	10 ns/100m
Transfer Impedance	1 MHz	≤ 5 mΩ /m
	10 MHz	≤ 5 mΩ /m
	30 MHz	≤ 10 mΩ /m
	100 MHz	≤ 20 mΩ /m
Nominal velocity of propagation		0.75 c
Mutual capacitance	nominal	45 nF/km

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## Electrical data

at 20°C

F (MHZ)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB/100m)	Return loss (dB)	PS-NEXT (dB)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)
1	1.7	100	98	23	97	95	100	97
4	3.3	100	97	26	97	94	97	94
10	5.1	100	95	28	97	92	95	92
16	6.5	100	94	28	92	91	90	87
20	7.3	100	93	28	90	90	90	87
31.25	9.1	100	91	27	90	88	90	87
62.5	12.8	100	87	25	90	84	85	82
100	16.3	100	83	23	87	80	80	77
155	20.3	95	75	21	87	72	78	75
200	23	95	72	21	87	69	75	72
250	25.8	90	64	20	87	61	69	66
300	28.3	89	61	20	85	58	65	62
600	40.2	85	45	20	82	42	45	42
1000	52.1	83	31	20	80	28	40	37

## Technical data

Product code	Type	Brand name	Outer diameter	Fire load	Weight	Cu-content	Tensile force
			mm	MJ/km	kg/km		N
60058147	Cat 7 S/FTP AWG23	MFO 23	9.3	674	74	45	150

[PRODUCT CODE TABLE]

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