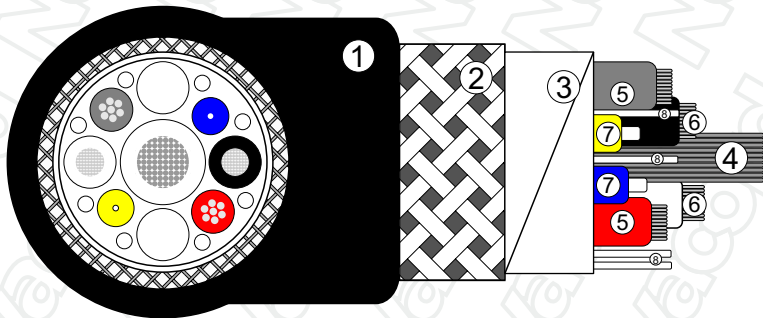


# NOVACORD

SMPTE 311M- 2CxAWG24 / 2PxAWG16 / 2FxSM  
PVC

SMPTE 311M Cable, 2 Fiber, 2 Conductor 24 AWG, 2 Conductor 16 AWG. It is used in professional video productions for simultaneous transmission of energy, video, audio and control signals and is intended to interconnect Camera Units and Base Stations in conjunction with the Connector Interface Standard

## Construction diagram



- 1 - Jacket
- 2 - Screen
- 3 - Cotton layer
- 4 - Central cord
- 5 - Signal conductor
- 6 - Power conductor
- 7 - Optical fiber
- 8 - Fillers

**HIGHEST QUALITY - RELIABILITY - INNOVATION**

# Hybrid HD Camera Cable 2SM 9/125 + 2xAWG24 + 2xAWG16 acc. to SMPTE 311M-Standard

## Structure

<b>Conductor (S)</b>	<b>Cross Sec. Area</b>	0.22 mm <sup>2</sup> , Ø 0.61 mm
	<b>No. of Cores</b>	2 cores
	<b>Material</b>	Tinned OFC
	<b>Type of conductor</b>	Stranded
	<b>Strands</b>	7/0.20 ±0.008 mm
<b>Insulation (S)</b>	<b>Material</b>	PVC
	<b>Diameter</b>	1.27 ±0.1 mm
	<b>Color</b>	Red, Grey
<b>Conductor (P)</b>	<b>Cross Sec. Area</b>	1.3 mm <sup>2</sup> , Ø 1.5 mm
	<b>No. of Cores</b>	2 cores
	<b>Material</b>	Tinned OFC
	<b>Type of conductor</b>	Stranded
	<b>Strands</b>	65/0.16 ±0.008 mm
<b>Insulation (P)</b>	<b>Material</b>	PVC
	<b>Diameter</b>	2.36 ±0.1 mm
	<b>Color</b>	White, Black
<b>Fiber</b>	<b>Mode Field Diameter</b>	9.5+/-1µm
	<b>No. of Cores</b>	2
	<b>Core diameter</b>	125+/-3µm
	<b>Core-clad Concentricity Error</b>	< 1µ m
	<b>Buffer Tube Diameter</b>	0.9mm
	<b>Breakout Element Material</b>	PVC
	<b>Buffer Tube Material</b>	PVC
	<b>Buffer Tube colors</b>	Blue, Yellow
	<b>Strength Member</b>	Aramid Yarn
<b>Central cord</b>	<b>Material</b>	Stainless Steel
	<b>Diameter</b>	0.7 ±0.1 mm
	<b>Insulation</b>	PVC
<b>Screen</b>	<b>Type</b>	Braid
	<b>Material</b>	Tinned copper
	<b>Coverage</b>	95%
<b>Jacket</b>	<b>Material</b>	PVC
	<b>Diameter</b>	9.2 ±0.2 mm
	<b>Color</b>	Black, RAL9005

# Hybrid HD Camera Cable 2SM 9/125 + 2xAWG24 + 2xAWG16 acc. to SMPTE 311M-Standard

## Mechanical properties

Temperature range		-25°C to +70°C
Max. humidity		95 %
Bending radius		72 mm / 8xD (outer diameter)
Max pull tension	long term	2000 N

## Optical properties

### Fibre Optic Single Mode (2 x 9/125µ)

Cutt-off wavelength		1100 - 1350 nm
Attenuation	at 1310 nm	0.8 dB/km

## Electrical properties

20°C

### Auxiliary Conductors AWG20 (2 x 0.6 mm<sup>2</sup>)

DC resistance		≤ 14.1 Ω/km
Loop resistance		≤ 27.9 Ω/km
Insulation resistance		≤ 10 <sup>4</sup> MΩ/km
Test voltage		1750 V AC rms
Operation voltage		≤ 300 V AC rms

### Signal Conductors AWG24 (2 x 0.22 mm<sup>2</sup>)

DC resistance		≤ 76.4 Ω/km
Loop resistance		≤ 150 Ω/km
Insulation resistance		≤ 10 <sup>4</sup> MΩ/km
Test voltage		1750 V AC rms
Operation voltage		≤ 300 V AC rms

### Overall screen

DC resistance		≤ 9.1 Ω/km
---------------	--	------------

## Standarts

Flame resistance		CMR
Amt of Halogen		zero

© NOVACORD 2022 All Rights Reserved

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Novacord Inc. Although Novacord makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission.

Novacord Inc. provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Novacord be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Novacord has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

HIGHEST QUALITY - RELIABILITY - INNOVATION

novacord.de