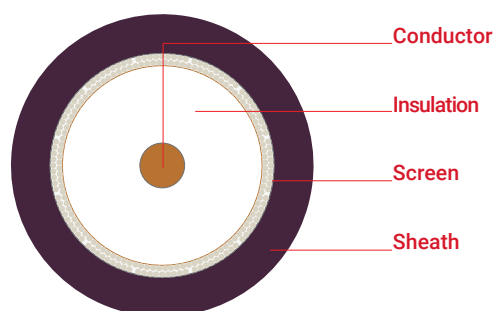




### Cable structure



Electrolytic copper wire, Ø 0.81 mm (AWG20)

Physical foam PE, Ø 3.70 mm  
70°C, EN 50290-2-23

Al-Pet-Al foil min. 100% coverage  
Tinned braided copper wire 95% coverage

HFFR - RAL4007 Purple, Ø 5.90 mm  
70°C, EN 50290-2-27

### Application

Utilising physical foam insulation technology, cables have a rated impedance of 75 ohms and comply with EN 50117. They are used in live broadcasts and studio recordings as they transmit digital and HDTV-SDI video and convey rich media content such as HD and 3G without interruption.

### Specifications

Operating temperature		-30°C ...+70°C	
Bending radius	min.	10 x D	
Impedance		75 ± 1 Ω	
Capacitance		54 ± 1 pF/m	
Velocity of propagation		(83 ± 1)%	
Insulation resistance	min.	2 GΩ x km	
Operating voltage	max.	1000 V	
Test voltage		2500 V	
Attenuation @20°C	max.	1 MHz	1.17 dB/100 m
		5 MHz	2.13 dB/100 m
		10 MHz	2.86 dB/100 m
		50 MHz	5.95 dB/100 m
		100 MHz	8.31 dB/100 m
		200 MHz	11.71 dB/100 m
		500 MHz	18.67 dB/100 m
		800 MHz	23.86 dB/100 m
		1000 MHz	26.85 dB/100 m
		1500 MHz	33.37 dB/100 m
		2250 MHz	41.65 dB/100 m
		3000 MHz	48.87 dB/100 m
		3500 MHz	53.30 dB/100 m
		4000 MHz	57.50 dB/100 m
		4500 MHz	61.50 dB/100 m
		5000 MHz	65.35 dB/100 m
Return loss <sup>1)</sup>		5-300 MHz	> 26 dB
		300-3000 MHz	> 22 dB
		3000-5000 MHz	> 15 dB
Segregation class		"d"	EN 50174-2

**Standards** EN 50117, IEC 61196

### Fire performance

Vertical flame propagation EN 60332-1-2

Corrosive gas EN 60754-1/2

Smoke density EN 61034-2

### EU declaration of conformity

LVD Low Voltage Directive 2014/35/EU

RoHS Restriction of Hazardous Substances 2011/65/EU

### Cable assembly length

	SD	HD	3G
Data rate	270 Mb/s	1.5 Gb/s	3.0 Gb/s
Std.	SMPTE 292M	SMPTE 259M	SMPTE 424M
Application	Component SDI	720p-1080i	1080p
Assembly length	340 meters	95 meters	65 meters

Return loss <sup>1)</sup>	5-300 MHz	> 26 dB
	300-3000 MHz	> 22 dB
	3000-5000 MHz	> 15 dB
Segregation class	"d"	EN 50174-2

<sup>1)</sup> According to EN 50117, 3 return loss peaks, whose value exceeds the limit by a maximum of 4 dB, are permissible.

Product code	Cable structure	Diameter [mm]	Copper weight [kg/km]	Cable weight [kg/km]	Sheath colour	Packaging [m]
307183	HDV 80 HFFR	5.90	23	48	■ Purple (RAL 4007)	500/1000

Specifications may vary depending on technical modifications.