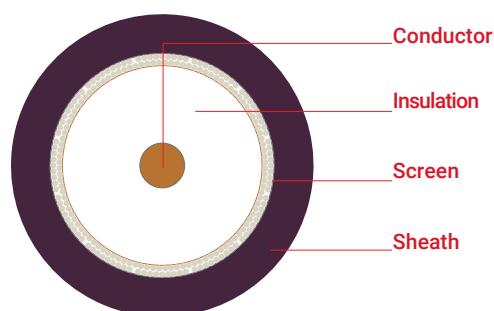




Cable structure



Electrolytic copper wire, Ø 0.64 mm (AWG22)

Physical foam PE, Ø 2.90 mm
70°C, EN 50290-2-23

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

HFFR - RAL4007 Purple, Ø 4.50 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 1.44 dB/100 m
		5 MHz 2.61 dB/100 m
		10 MHz 3.49 dB/100 m
		50 MHz 7.26 dB/100 m
		100 MHz 10.12 dB/100 m
		200 MHz 14.23 dB/100 m
		500 MHz 22.62 dB/100 m
		800 MHz 28.85 dB/100 m
		1000 MHz 32.43 dB/100 m
		1500 MHz 40.21 dB/100 m
		2250 MHz 50.04 dB/100 m
		3000 MHz 58.59 dB/100 m
		3500 MHz 63.81 dB/100 m
		4000 MHz 68.75 dB/100 m
		4500 MHz 73.46 dB/100 m
		5000 MHz 77.97 dB/100 m
Return loss ¹⁾		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	240 meters	80 meters	45 meters

¹⁾ 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]
307182	HDV 60 HFFR	4.50	14	28	■ Purple (RAL 4007)	500/1000

Specifications may vary depending on technical modifications.