SMPTE SDI 3G-SDI HD-SDI Video SFP MSA

Video SMPTE SFP, transceiver type	Type	Distance @ Worst conditio
EOLS-1330-10-D	Tranceiver, MSA	10km
EOLS-1330-35-D	Tranceiver, MSA	35km
EOLS-1330-50-D	Tranceiver, MSA	35km
EOLS-1530-50-D	Tranceiver, MSA	50km
EOLS-1530-80-D	Tranceiver, MSA	80km

Video SMPTE SFP, CWDM transceiver	Type	Distance @ Worst conditio
EOLS-1630-18XD Series	CWDM Tranceiver, MSA	Link budget : 18dB

EOLS-1630-28XD Series	CWDM Tranceiver, MSA	Link budget : 28dB
Video SMPTE SFP, DWDM transceiver	Type	Distance @ Worst conditio
EOLS-1630-18XXD Series	DWDM Tranceiver, MSA	Link budget : 18dB
EOLS-1630-28XXD Series	DWDM Tranceiver, MSA	Link budget : 28dB
Video SMPTE SFP, single TX	Type	Distance @ Worst conditio
EOLS-1330-T-10-D	Single Transmitter, MSA	10km
EOLS-1330-T-35-D	Single Transmitter, MSA	35km
EOLS-1530-T-50-D	Single Transmitter, MSA	50km

Video SMPTE SFP, single CWDM TX	Type	Distance @ Worst conditio
EOLS-1630-T-XD Series	CWDM Single Transmitter, MSA	35km

Video SMPTE SFP, single RX	Type	Distance @ Worst conditio
EOLS-30-R-D	Single Receiver, MSA	10km
EOLS-30-RH-D	Single Receiver, MSA	80km

Video SMPTE SFP, BIDI transceiver	Type	Distance @ Worst conditio
EOLS-BI1330-10-D	Tranceiver, MSA	10km
EOLS-BI1630-10-LCD	Tranceiver, MSA	10km
EOLS-BI1530-10-D	Tranceiver, MSA	10km

EOLS-BI1330-35-D	Tranceiver, MSA	35km
EOLS-BI1630-35-LCD	Tranceiver, MSA	35km
EOLS-BI1530-35-D		35km 1550r
EOLS-BI1630-18XYD Series	CWDM Tranceiver, MSA	Link budget : 18dB

HDTV Standards and Practices for Digital Broadcasting, digital video SFP.

Fiber Optic Transport of HD/SD-SDI

It is becoming increasingly necessary and economically feasible to transport HD/SD-SDI signals over fiber instead of coaxial cable. The reasons are many including increased bandwidth, lower cabling cost, noise immunity and greater transmission distances. Prior to 2006, several standards were used to define how SDI signals were to be transported over fiber. Now, there is one standard to define the many aspects and parameters of the fiber optic interface for the transmission and reception of SDI over fiber.

SMPTE 297-2006: This standard defines the fiber optic interface for the transmission and

reception of SDI signals at various data rates:

SMPTE 259M: 143 through 360 Mbps

SMPTE 344M: 540 Mbps

SMPTE 292: 1.485 and 1.485/1.001 Gbps

SMPTE 424M: 2.97 and 2.97/1.001 Gbps

SMPTE 297-2006 defines many parameters of the optical interface for both a transmitting and receiving device with a fiber optic interface. The input to a fiber Transmitter can be any one of the SMPTE coaxial-based standards indicated above. On the Receiver, the output will be of the same coaxial interface type of the Transmitter. The significance of the new 297 standard is that it allows for interoperability between fiber optic devices from different manufacturers that comply with the standard.