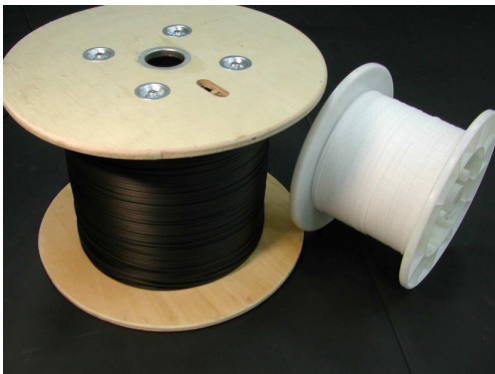


OptoLup[™] POF cable

Data Sheet

Overview



COMOSS OptoLup[™] Cable is a type of APF, All Plastic-fiber; both the core and the cladding are made of plastic, among of which the refractive index of the core is higher than the cladding, so that when an optical ray is transmitted at an angle into the cable, the optical ray can be reflected back at the boundary between the core and the cladding for the transmitting.

This is International standard IEC60794-2-40 compliant POF cables.

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Features

- (1) Low cost, low attenuation and high band width.
- (2) Better installed bend radius than GOF, bending failures can be solved.
- (3) Designed to be used with plugless connection technology.
- (4) With the specialty for use with COMOSS former designed POF cutter.
- (5) With matured process, the concentricity between fiber core and cladding are well controlled.
- (6) Not only suitable for Toslink, Mini-Plug, SMI and IDB1394, OptoLup[™] can be used with FC/SC/ST & LC connectors as well.
- (7) Both Simplex and Duplex are available, with Comoss designed field installation tool kit, technical people are easily to be trained for fast installation.
- (8) Targeted applications : Industrial, Multimedia, Interconnection, LAN, and Surveillance.
- (9) Compliant to IEC60794-2-40. (JIS C 6836).

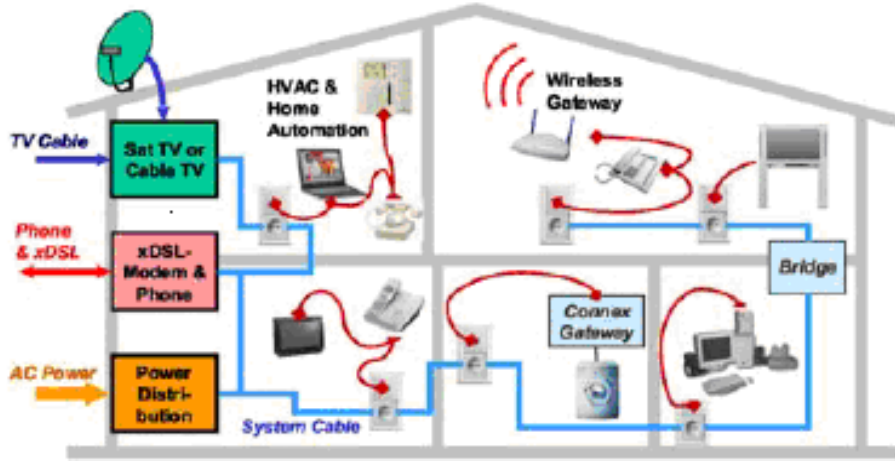
General Specifications (S.I. POF)

Products number		OLPC -S51D1W	OLPC -S51S1W	OLPC -S51D2B	OLPC -S51S2B
Fiber Type	Core	PMMA	PMMA	PMMA	PMMA
	Cladding	Fluorinated polymer	Fluorinated polymer	Fluorinated polymer	Fluorinated polymer
Fiber Diameter		1000+/-60uM	1000+/-60uM	1000+/-60uM	1000+/-60uM
Attenuation at 650nm		0.2dB/m	0.2dB/m	0.2dB/m	0.2dB/m
Refractive Index	Core	1.492	1.492	1.492	1.492
	Cladding	1.405	1.405	1.405	1.405
Acceptance Angle, °		60°	60°	60°	60°
Outer Sheath Mat'l		PE	PE	PE	PE
Sheath color		White	White	Black	Black
Numerical Aperture		0.5	0.5	0.5	0.5
Minimum Bend Radius		15mm	15mm	25mm	25mm
Conductors		Duplex	Simplex	Duplex	Simplex
Outer Diameter, mm		1.5mm*3.0mm	1.5mm	2.2mm*4.4mm	2.2mm
Standard length, KM		2.0	2.0	2.0	2.0
Cable weight, KG/km		≤ 5	≤ 2.5	≤ 8.5	≤ 4.5
Storage, operating temperature		-40~+75°C	-40~+75°C	-40~+75°C	-40~+75°C

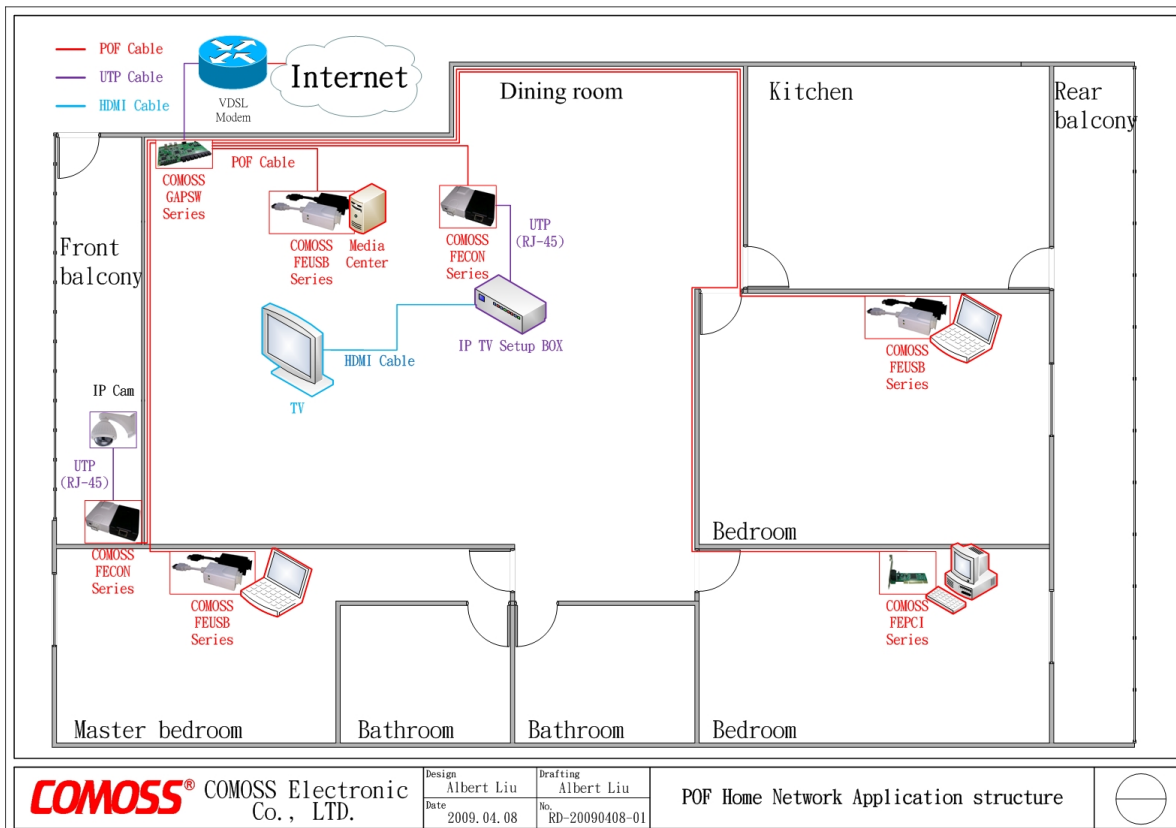
Note: relative specifications

- (1) IEC 60793-1-1 : Optical fibres – Part 1-1 : Measurement methods and test procedures – General guidance.
- (2) IEC60794-1-2 : Optical fibre cables – Part 1-2 : Generic specification – Basic optical cable test procedures.
- (3) IEC60793-1-20 : Optical fibres – Part 1-20 : Measurement methods and test procedures – Fibre geometry.
- (4) IEC60793-1-40 : Optical fibres – Part 1-40 : Measurement methods and test procedures – Attenuation.
- (5) IEC60793-2-40 : Optical fibres – Part 2-40 : Product specifications – Sectional specification for category A4 multimode fibres.
- (6) IEC 60794-2-40 : Optical fibre cables – Part 2-40 : Indoor optical fibre cables – Family specification for A4 fibre cables.

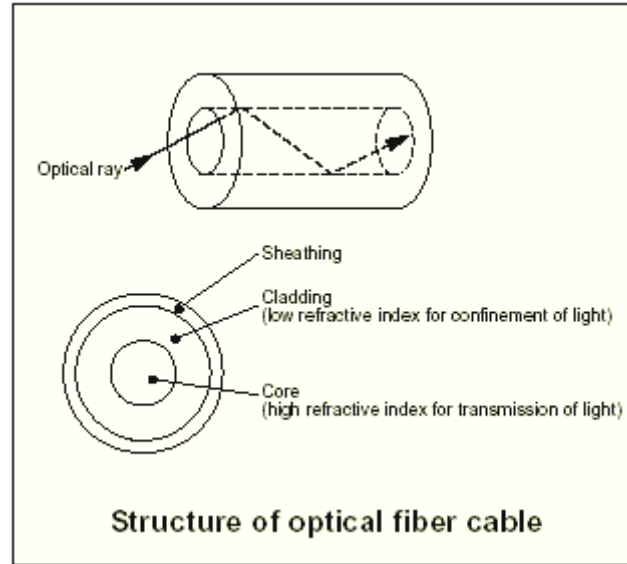
Application



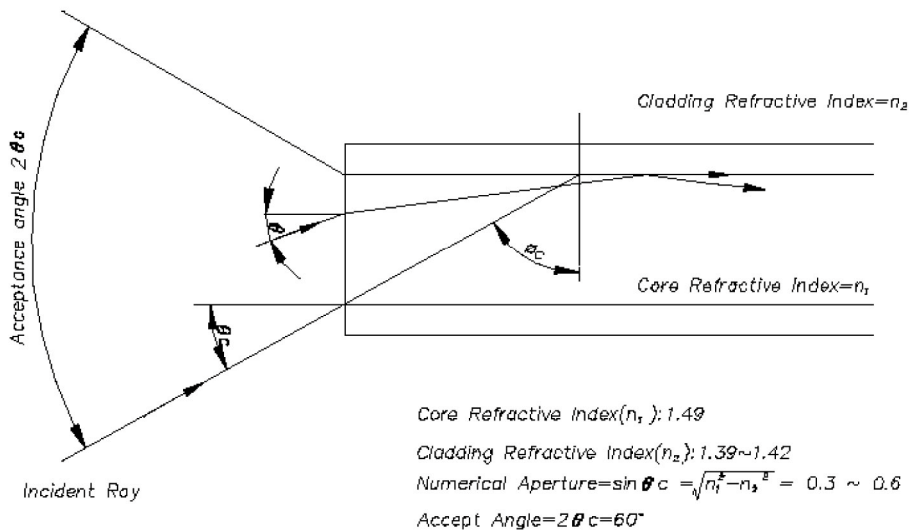
POF Network



Structural drawing of refractive index



Structural drawing of refractive index



Order Information

OLPC - S 5 1 D 2 B
(1) (2) (3) (4) (5) (6)

(4) Index type :

- S: Step Index. (S.I.)
- G: Graded Index. (G.I.)

(2) Jacket Color Option:

- B: Black color
- W: White color

(5) Numerical Aperture (N.A.):

- 2: N.A. 0.2
- 3: N.A. 0.3
- 5: N.A. 0.5

(3) Jacket O.D.:

- 1: O.D. 1.5mm
- 2: O.D. 2.2mm

(1) Core size:

- 1: 980micron/core, 1000micron cladding
- 2: 120micron/core, 490micron cladding

(6) Conductors:

- D: Duplex. (Zip cord type)
- S: Simplex

P.S. OptoLup[™] is registered by COMOSS Electronic Co., Ltd.