

RHEE 4002 W

Polymer Optical Fibre (POF)

Product Description

The Polymer Optical Fibre (POF) is an optical fibre for data transmission with visible red light which is not harmful for the eyes. Main features are light weight, small diameter and galvanically non-conduciveness.

One fibre is used for each transmission direction. Therefore the POF cable consists of two fibres. The cable can be installed with the electrical installation. The network components can be installed like typical electricity sockets, so there is no need for additional cable conduits.

All components developed by Homefibre transmit information with the standardized Internet Protocol (IP). Main features of a Homefibre network are high performance, high energy efficiency and secure transmission.



Purchase Unit (PU)	Content	Unit	width (PU in mm)	depth (PU in mm)	height (PU in mm)	weight (PU in kg)	Add. Information
RHEE 4002 W-500	500	m	365	365	175	3.75	spool
RHEE 4002 W-1000	1000	m	475	475	180	7.50	spool
RHEE 4002 W-20 CUT	20	m	230	170	50	0.30	bundle incl. cutter
RHEE 4002 W-30 CUT	30	m	230	170	50	0.38	bundle incl. cutter
RHEE 4002 W-40 CUT	40	m	230	170	80	0.45	bundle incl. cutter
RHEE 4002 W-50 CUT	50	m	230	170	80	0.53	bundle incl. cutter
RHEE 4002 W-70 CUT	70	m	200	200	105	0.68	bundle incl. cutter
RHEE 4002 W-100 CUT	100	m	200	200	105	0.90	bundle incl. cutter

Optical Fibre

core material	Polymethyl-Methacrylate Resin
cladding material	Fluorinated Polymer
refractive index	1.49
mode and index profile	Multi Mode with Step Index
Numeric Aperture (NA)	0.5
core diameter	typ. 980 µm
cladding diameter	typ. 1000 µm

Jacket Characteristics

jacket material	Polyethylene
jacket color	black

Outer Sheath

outer sheath material	Polyethylene
outer sheath color	white

Mechanical Characteristics

number of fibres	2 (Duplex)
cable weight	7.5 g/m
indication	ESKA OPTOHOME MITSUBISHI RAYON: Pink
cable minor axis	typ. 2.20 mm
cable major axis	typ. 4.40 mm
storage temperature	-55 °C to 70 °C
operation temperature	-55 °C to 70 °C
transmission loss	170 dB/km
minimum bending radius	25 mm
tensile strength	140 N

Transmission Characteristics

Gigabit Ethernet transmission (1 Gbps)	1 Gbps up to 50m, up to 80 m with ABR 1)
Fast Ethernet transmission (100 Mbps)	80 m
certification	Norm IEC60793-2 class A4a.2

1) ABR means Adaptive Bit Rate. The reduction of the information rate is used for guarantee error free transmission if the signal strength is low or the length of the cable is above 50m.

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