

Air Blown Fiber on Reel NTM 502+

Ribbonet® system

Application

Ericsson's Ribbonet® Enhanced Performance Fiber Unit (EPFU) will minimize initial investment and at the same time provide a future proof network that is easy to expand, upgrade and maintain. The main application areas are for fiber access and metropolitan networks.

Ribbonet® fiber is optimized for installation into micro/multi-ducts by blowing. For optimum blowing performance, use the Ericsson installation tool LTT 1792000.

The EPFU is delivered on lightweight styrofoam reels, pre-terminated with or without connectors.

Features

- 1, 2, 4 and 8 fiber options
- Pre-connected on lightweight reel
- Discrete fibers or Ribbon
- State of the art blowing performance
- Several single mode and multimode options
- Adapted for the Ribbonet® blowing tool

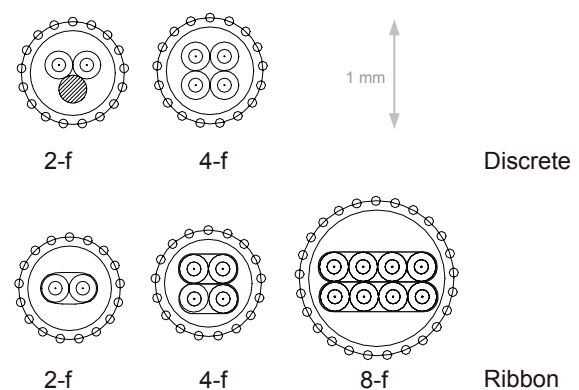
Pre-terminated fiber reels

The single most time consuming step in the installation of a fiber optic network is the fitting of the connectors. The Ribbonet® system offers the unique option of using air blown fiber with pre-terminated connectors. The connectors are mounted on the fiber and tested in a clean-room production environment. This will ensure a quick and trouble free installation since no time consuming fitting of connectors at the end user location is needed during installation.



Fiber types

The air blown fiber is available with single mode G652D or multimode fiber types. The fibers are bundled in ribbon structure, alternatively as discrete fibers. The ribbon configuration facilitates handling and minimizes installation time when ribbon splicing is used.



Cross sectional drawings on EPFU fiber bundle types

Typical data¹⁾

Temperature range
 Operation -30 to +60°C
 Transport and storage -30 to +60°C
 Installation -20 to +50°C

Fiber unit type 2-f 4-f 8-f
 Diameter (mm) 1.0 1.0 1.4
 Weight (g/m) 0.8 0.9 1.7

Bending radius

Temporarily unloaded ≥ 20 mm (2-, 4-f units)
 ≥ 28 mm (8-f units)
 Permanently (one turn)
 and during installation ≥ 25 mm (2-, 4-f units)
 ≥ 35 mm (8-f units)

Color, fiber unit (EPFU)

Single mode yellow
 Multimode 50/125µm turquoise

Crush resistance ≤ 100N/100 mm

Connector type for pre-connected fiber

Single mode: SC/UPC, SC/APC or LC/UPC
 Multimode: SC, ST, LC or MT-RJ

Connector performance UPC APC²⁾

Insertion loss (dB) < 0.5 < 0.5
 Return loss²⁾ (dB) > 50 > 60

¹⁾Mechanical, environmental and installation tests in accordance with draft IEC 60794-5-20. Fiber parameters and tests according to the IEC series 60793-2 and 60793-1

²⁾Specified for single mode fiber only

Connector options

Pre terminated fibers are available with SC/UPC, SC/APC, LC/UPC, ST and MT-RJ connectors.

Ordering information

The ordering number system is as follows:

NTM 502 ABCD/XXXX

where

AB type of fiber unit
CD type of connectors
XXXX length of fiber unit in meter

The tables below show the ABCD and XXXX numbers for some standard options of air blown fiber. Other fiber and connector options are available on request.

XXXX	Fiber length (m)
0030 -1000	30, 50, 70, 100, 150, 200, 250, 300, 350, 400, 500, 600, 700, 800, 900, 1000*

* Longer lengths are available for delivery on pan, see separate product information

Ordering example

Single mode, 2-fiber, ribbon with 2xSC/UPC simplex, 100 m.

Product number: NTM 502 0401/0100

Fiber type	No of fibers in bundle	Fiber configuration D=Discrete R=Ribbon	NTM 502 ABCD – Connector Options											
			Without connectors	SC simplex	SC/APC simplex	LC Simplex	LC Duplex	1x SC+ 1x SC/APC	ST simplex	MT-RJ female**	MT-RJ male**	2x SC (MM)+ 1x SC/APC***		
Single mode G652d, single fiber*	2*	D	4000	4016	4017	-	-	-	-	-	-	-	-	-
Single mode G652d	2	D	4000	4001	4009	4004	4005	4014	-	-	-	-	-	-
Single mode G652d	4	D	4200	4201	4209	4204	4205	-	-	-	-	-	-	-
Single mode G652d	2	R	0400	0401	0409	0404	0405	0414	-	-	-	-	-	-
Single mode G652d	4	R	0500	0501	0509	-	-	-	-	-	-	-	-	-
Single mode G652d	8	R	0600	0601	-	-	-	-	-	-	-	-	-	-
Multimode 50/125µm OM2	2	D	4800	-	-	-	-	-	-	-	-	-	-	-
Multimode 50/125µm OM2	4	D	5000	-	-	-	-	-	-	-	-	-	-	-
Multimode 50/125µm OM2	2	R	1400	1401	-	-	-	-	-	-	1403	1406	-	-
Multimode 50/125µm OM2	4	R	1500	1501	-	1504	-	-	-	-	-	1506	-	-
Multimode 50/125µm OM2	8	R	1900	1901	-	1904	-	-	-	-	-	-	-	-
Multimode 50/125µm OM3	8	R	2800	-	-	-	-	-	-	-	-	-	-	-
Multimode 62,5/125µm Gigabit	2	R	3500	-	-	-	-	-	-	3533	-	-	-	-
Multimode 62,5/125µm Gigabit	4	R	2500	-	-	-	-	-	-	2533	-	-	-	-
Hybrid Single mode G652d, 2-fiber + Multimode 50/125µm OM2, 2-fiber	4	R	3100	-	-	-	-	-	-	-	-	-	-	3112

* Fiber unit with 2 discrete fibers (1 spare for future upgrades), pre-terminated with one connector only (red fiber)

** 2 fibers per connector, male with guiding pins, female without guiding pins

*** Fiber unit with 2 pre-terminated multimode fibers + 2 single mode fibers, one pre-terminated an one spare fiber without connector