

# High Performance Air Blown Fiber – Pre-terminated

**ABF 2-12 fibers G657A1 TIA598 - Reel**

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## Features

- Pre-terminated fiber on reel
- Time saving installation
- Several connector options
- Extra strong and durable design
- Smooth, low-friction sheath
- Up to 12 fibers, G657A1 bend resistant fibers
- Extra wide operational temperature range
- Water and Ice tested
- State of the art blowing performance
- Zero sheath shrinkage

## Application

Hexatronic Stingray is a high performance Air Blown Fiber Unit intended for blowing into microducts. The main application area is for fiber access networks such as Fiber To The Home (FTTH).

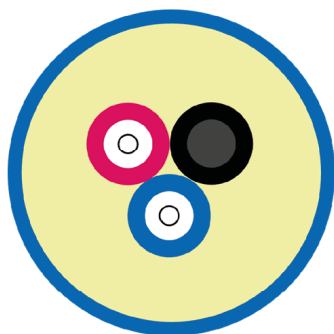
## Design

The Hexatronic Stingray Air Blown Fiber is designed with durability and performance in mind. The unique design offers a combination of properties previously not available on the market. A sturdy fiber unit with state of the art fiber blowing performance increases the installation success rate and provides quick and problem free installation. The Stingray has a unique sheath material with zero sheath shrinkage ,wich means no fragile splice points or sensitive installations in wall outlets or fiber cabinets.

The Air Blown Fiber unit is colored dark blue for good visibility when installed in semi-translucent microducts.

The Air Blown Fiber is delivered in bulk lengths in cardboard PANs. For optimum blowing performance, use the Hexatronic Air Blown Tool LTT 179 2040.

## Product Information



- 1 Primary coated fiber: Silica, acrylate
- 2 Primary coating: UV-cured acrylate
- 3 Sheath: Low friction polyolefin

A mechanical filler is used in the 2-fiber unit as well as in the center of the 6-fiber unit.

## Technical Information

|                                    |            |
|------------------------------------|------------|
| <b>Product Color</b>               | Dark blue  |
| <b>Color Code</b>                  | TIA598     |
| <b>Temperature, Operation [°C]</b> | -40 to +70 |

|                                       |                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Temperature, Storage [°C]</b>      | -40 to +70                                                                                                                                                                                                                                                                                                                                                       |
| <b>Temperature, Installation [°C]</b> | -15 to +50                                                                                                                                                                                                                                                                                                                                                       |
| <b>Fiber Type</b>                     | G657A1                                                                                                                                                                                                                                                                                                                                                           |
| <b>Attenuation @Wavelength [nm]</b>   | 1310/1550                                                                                                                                                                                                                                                                                                                                                        |
| <b>Maximum Attenuation [dB/km]</b>    | 0.38/0.25                                                                                                                                                                                                                                                                                                                                                        |
| <b>Insertion Loss, max [dB]</b>       | 0.25                                                                                                                                                                                                                                                                                                                                                             |
| <b>Return Loss, min [dB]</b>          | SC/UPC & LC/UPC: 55, SC/APC & LC/APC: 65                                                                                                                                                                                                                                                                                                                         |
| <b>Conformance</b>                    | <p><b>Air blown fiber:</b> IEC 60794-5-20</p> <p><b>Bend radius:</b> IEC 60794-1-21, Method E11</p> <p><b>Crush resistance:</b> IEC 60794-1-21 Method E3</p> <p><b>Kink:</b> IEC 60794-1-21 Method E10</p> <p>Tensile force during installation: IEC 60794-1-22, Method F1</p> <p>Fiber parameters and tests according to the IEC series 60793-2 and 60793-1</p> |
| <b>Technical Notes</b>                | <p>Water immersion and repeated freeze test:</p> <p>Hexatronic standard test, 100 cycles, -25, to +15°C</p>                                                                                                                                                                                                                                                      |
| <b>Installation Notes</b>             | <p>Typical installation performance:</p> <ul style="list-style-type: none"><li>▪ Ducts ID 3.5-4 mm: 1000 m</li></ul> <p>Installation performance is affected by the installed path, environmental conditions, installation equipment etc and actual performance may therefore deviate from the above specified value</p>                                         |
| <b>Ordering Information</b>           | <p><b>Supplied lengths:</b> Fixed lengths from 30 to 1000 m</p> <p>Delivered on miniature cardboard reels</p>                                                                                                                                                                                                                                                    |

## Technical Details

|                             |      |        |       |       |       |       |     |       |        |        |      |      |
|-----------------------------|------|--------|-------|-------|-------|-------|-----|-------|--------|--------|------|------|
| TIA-598<br>Fibers and Tubes | 1    | 2      | 3     | 4     | 5     | 6     | 7   | 8     | 9      | 10     | 11   | 12   |
|                             | Blue | Orange | Green | Brown | Slate | White | Red | Black | Yellow | Violet | Rose | Aqua |
|                             | 13   | 14     | 15    | 16    | 17    | 18    | 19  | 20    | 21     | 22     | 23   | 24   |
|                             | Blue | Orange | Green | Brown | Slate | White | Red | Clear | Yellow | Violet | Rose | Aqua |

TIA 598 Color Code Chart

## Articles 76

| Article name                                                        | Color     | No. of Fibers | Layout | Bend Radius [mm] | Tensile Force [N] | Diameter Ø [mm] | Dimensions [mm] | Length [m] | Form of Delivery |
|---------------------------------------------------------------------|-----------|---------------|--------|------------------|-------------------|-----------------|-----------------|------------|------------------|
| <b>ABF 1 SC/APC 2 G657A1 TIA598 REEL, 30m</b><br>KRPM258121/30M     | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 30         | Reel             |
| <b>ABF 1 SC/APC 2 G657A1 TIA598 REEL, 50m</b><br>KRPM258121/50M     | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 50         | Reel             |
| <b>ABF 1 SC/APC 2 G657A1 TIA598 REEL, 70m</b><br>KRPM258121/70M     | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 70         | Reel             |
| <b>ABF 1 SC/APC 2 G657A1 TIA598 REEL, 100m</b><br>KRPM258121/100M   | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 100        | Reel             |
| <b>ABF 1 SC/APC 2 G657A1 TIA598 REEL, 100m</b><br>KRPM258121/150M   | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 150        | Reel             |
| <b>ABF 1 SC/APC 2 G657A1 TIA598 REEL, 200m</b><br>KRPM258121/200M   | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 200        | Reel             |
| <b>ABF 1 SC/APC 2 G657A1 TIA598 REEL, 250m</b><br>KRPM258121/250M   | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 250        | Reel             |
| <b>ABF 1 SC/APC 2 G657A1 TIA598 REEL, 300m</b><br>KRPM258121/300M   | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 300        | Reel             |
| <b>ABF 1 SC/APC 2 G657A1 TIA598 REEL, 350m</b><br>KRPM258121/350M   | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 350        | Reel             |
| <b>ABF 1 SC/APC 2 G657A1 TIA598 REEL, 400m</b><br>KRPM258121/400M   | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 400        | Reel             |
| <b>ABF 1 SC/APC 2 G657A1 TIA598 REEL, 500m</b><br>KRPM258121/500M   | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 500        | Reel             |
| <b>ABF 1 SC/APC 2 G657A1 TIA598 REEL, 600m</b><br>KRPM258121/600M   | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 600        | Reel             |
| <b>ABF 1 SC/APC 2 G657A1 TIA598 REEL, 700m</b><br>KRPM258121/700M   | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 700        | Reel             |
| <b>ABF 1 SC/APC 2 G657A1 TIA598 REEL, 800m</b><br>KRPM258121/800M   | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 800        | Reel             |
| <b>ABF 1 SC/APC 2 G657A1 TIA598 REEL, 900m</b><br>KRPM258121/900M   | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 900        | Reel             |
| <b>ABF 1 SC/APC 2 G657A1 TIA598 REEL, 1000m</b><br>KRPM258121/1000M | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 1000       | Reel             |
| <b>ABF 1 LC/APC 2 G657A1 TIA598 REEL, 30m</b><br>KRPM258122/30M     | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 30         | Reel             |
| <b>ABF 1 LC/APC 2 G657A1 TIA598 REEL, 50m</b><br>KRPM258122/50M     | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 50         | Reel             |
| <b>ABF 1 LC/APC 2 G657A1 TIA598 REEL, 70m</b><br>KRPM258122/70M     | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 70         | Reel             |
| <b>ABF 1 LC/APC 2 G657A1 TIA598 REEL, 100m</b><br>KRPM258122/100M   | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 100        | Reel             |
| <b>ABF 1 LC/APC 2 G657A1 TIA598 REEL, 150m</b><br>KRPM258122/150M   | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 150        | Reel             |
| <b>ABF 1 LC/APC 2 G657A1 TIA598 REEL, 200m</b><br>KRPM258122/200M   | Dark blue | 2             | –      | 20               | 5                 | 1.1             | –               | 200        | Reel             |

| Article name                                                        | Color     | No. of Fibers | Layout | Bend Radius [mm] | Tensile Force, Installation [N] | Diameter Ø [mm] | Dimensions [mm] | Length [m] | Form of Delivery |
|---------------------------------------------------------------------|-----------|---------------|--------|------------------|---------------------------------|-----------------|-----------------|------------|------------------|
| <b>ABF 1 LC/APC 2 G657A1 TIA598 REEL, 250m</b><br>KRPM258122/250M   | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 250        | Reel             |
| <b>ABF 1 LC/APC 2 G657A1 TIA598 REEL, 300m</b><br>KRPM258122/300M   | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 300        | Reel             |
| <b>ABF 1 LC/APC 2 G657A1 TIA598 REEL, 350m</b><br>KRPM258122/350M   | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 350        | Reel             |
| <b>ABF 1 LC/APC 2 G657A1 TIA598 REEL, 400m</b><br>KRPM258122/400M   | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 400        | Reel             |
| <b>ABF 1 LC/APC 2 G657A1 TIA598 REEL, 500m</b><br>KRPM258122/500M   | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 500        | Reel             |
| <b>ABF 1 LC/APC 2 G657A1 TIA598 REEL, 600m</b><br>KRPM258122/600M   | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 600        | Reel             |
| <b>ABF 1 LC/APC 2 G657A1 TIA598 REEL, 700m</b><br>KRPM258122/700M   | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 700        | Reel             |
| <b>ABF 1 LC/APC 2 G657A1 TIA598 REEL, 800m</b><br>KRPM258122/800M   | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 800        | Reel             |
| <b>ABF 1 LC/APC 2 G657A1 TIA598 REEL, 900m</b><br>KRPM258122/900M   | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 900        | Reel             |
| <b>ABF 1 LC/APC 2 G657A1 TIA598 REEL, 1000m</b><br>KRPM258122/1000M | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 1000       | Reel             |
| <b>ABF 2 LC/APC 2 G657A1 TIA598 REEL, 30m</b><br>KRPM258120/30M     | Dark blue | 2             | LCA    | 20               | 5                               | 1.1             | –               | 30         | Reel             |
| <b>ABF 2 LC/APC 2 G657A1 TIA598 REEL, 50m</b><br>KRPM258120/50M     | Dark blue | 2             | LCA    | 20               | 5                               | 1.1             | –               | 50         | Reel             |
| <b>ABF 2 LC/APC 2 G657A1 TIA598 REEL, 70m</b><br>KRPM258120/70M     | Dark blue | 2             | LCA    | 20               | 5                               | 1.1             | –               | 70         | Reel             |
| <b>ABF 2 LC/APC 2 G657A1 TIA598 REEL, 100m</b><br>KRPM258120/100M   | Dark blue | 2             | LCA    | 20               | 5                               | 1.1             | –               | 100        | Reel             |
| <b>ABF 2 LC/APC 2 G657A1 TIA598 REEL, 150m</b><br>KRPM258120/150M   | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 150        | Reel             |
| <b>ABF 2 LC/APC 2 G657A1 TIA598 REEL, 200m</b><br>KRPM258120/200M   | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 200        | Reel             |
| <b>ABF 2 LC/APC 2 G657A1 TIA598 REEL, 250m</b><br>KRPM258120/250M   | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 250        | Reel             |
| <b>ABF 2 LC/APC 2 G657A1 TIA598 REEL, 300m</b><br>KRPM258120/300M   | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 300        | Reel             |
| <b>ABF 2 LC/APC 2 G657A1 TIA598 REEL, 350m</b><br>KRPM258120/350M   | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 350        | Reel             |
| <b>ABF 2 LC/APC 2 G657A1 TIA598 REEL, 400m</b><br>KRPM258120/400M   | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 400        | Reel             |
| <b>ABF 2 LC/APC 2 G657A1 TIA598 REEL, 500m</b><br>KRPM258120/500M   | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 500        | Reel             |
| <b>ABF 2 LC/APC 2 G657A1 TIA598 REEL, 600m</b><br>KRPM258120/600M   | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 600        | Reel             |
| <b>ABF 2 LC/APC 2 G657A1 TIA598 REEL, 700m</b><br>KRPM258120/700M   | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 700        | Reel             |
| <b>ABF 2 LC/APC 2 G657A1 TIA598 REEL, 800m</b><br>KRPM258120/800M   | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 800        | Reel             |

| Article name                                                        | Color     | No. of Fibers | Layout | Bend Radius [mm] | Tensile Force, Installation [N] | Diameter Ø [mm] | Dimensions [mm] | Length [m] | Form of Delivery |
|---------------------------------------------------------------------|-----------|---------------|--------|------------------|---------------------------------|-----------------|-----------------|------------|------------------|
| <b>ABF 2 LC/APC 2 G657A1 TIA598 REEL, 900m</b><br>KRPM258120/900M   | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 900        | Reel             |
| <b>ABF 2 LC/APC 2 G657A1 TIA598 REEL, 1000m</b><br>KRPM258120/1000M | Dark blue | 2             | –      | 20               | 5                               | 1.1             | –               | 1000       | Reel             |
| <b>ABF 6 LC/APC 6 G657A1 TIA598 REEL, 30m</b><br>KRPM258221/30M     | Dark blue | 6             | –      | 20               | 5                               | 1.25            | –               | 30         | Reel             |
| <b>ABF 6 LC/APC 6 G657A1 TIA598 REEL, 50m</b><br>KRPM258221/50M     | Dark blue | 6             | –      | 20               | 5                               | 1.25            | –               | 50         | Reel             |
| <b>ABF 6 LC/APC 6 G657A1 TIA598 REEL, 70m</b><br>KRPM258221/70M     | Dark blue | 6             | –      | 20               | 5                               | 1.25            | –               | 70         | Reel             |
| <b>ABF 6 LC/APC 6 G657A1 TIA598 REEL, 100m</b><br>KRPM258221/100M   | Dark blue | 6             | LCA    | 20               | 5                               | 1.25            | –               | 100        | Reel             |
| <b>ABF 6 LC/APC 6 G657A1 TIA598 REEL, 150m</b><br>KRPM258221/150M   | Dark blue | 6             | LCA    | 20               | 5                               | 1.25            | –               | 150        | Reel             |
| <b>ABF 6 LC/APC 6 G657A1 TIA598 REEL, 200m</b><br>KRPM258221/200M   | Dark blue | 6             | LCA    | 20               | 5                               | 1.25            | –               | 200        | Reel             |
| <b>ABF 6 LC/APC 6 G657A1 TIA598 REEL, 250m</b><br>KRPM258221/250M   | Dark blue | 6             | LCA    | 20               | 5                               | 1.25            | –               | 250        | Reel             |
| <b>ABF 6 LC/APC 6 G657A1 TIA598 REEL, 300m</b><br>KRPM258221/300M   | Dark blue | 6             | LCA    | 20               | 5                               | 1.25            | –               | 300        | Reel             |
| <b>ABF 6 LC/APC 6 G657A1 TIA598 REEL, 350m</b><br>KRPM258221/350M   | Dark blue | 6             | LCA    | 20               | 5                               | 1.25            | –               | 350        | Reel             |
| <b>ABF 6 LC/APC 6 G657A1 TIA598 REEL, 400m</b><br>KRPM258221/400M   | Dark blue | 6             | LCA    | 20               | 5                               | 1.25            | –               | 400        | Reel             |
| <b>ABF 6 LC/APC 6 G657A1 TIA598 REEL, 500m</b><br>KRPM258221/500M   | Dark blue | 6             | LCA    | 20               | 5                               | 1.25            | –               | 500        | Reel             |
| <b>ABF 6 LC/APC 6 G657A1 TIA598 REEL, 600m</b><br>KRPM258221/600M   | Dark blue | 6             | LCA    | 20               | 5                               | 1.25            | –               | 600        | Reel             |
| <b>ABF 6 LC/APC 6 G657A1 TIA598 REEL, 700m</b><br>KRPM258221/700M   | Dark blue | 6             | LCA    | 20               | 5                               | 1.25            | –               | 700        | Reel             |
| <b>ABF 6 LC/APC 6 G657A1 TIA598 REEL, 800m</b><br>KRPM258221/800M   | Dark blue | 6             | LCA    | 20               | 5                               | 1.25            | –               | 800        | Reel             |
| <b>ABF 12 LC/APC 12 G657A1 TIA598 REEL, 30m</b><br>RPM258230/30M    | Dark blue | 12            | –      | 20               | 5                               | 1.4             | 1.4             | 30         | Reel             |
| <b>ABF 12 LC/APC 12 G657A1 TIA598 REEL, 50m</b><br>RPM258230/50M    | Dark blue | 12            | –      | 20               | 5                               | 1.4             | 1.4             | 50         | Reel             |
| <b>ABF 12 LC/APC 12 G657A1 TIA598 REEL, 70m</b><br>RPM258230/70M    | Dark blue | 12            | –      | 20               | 5                               | 1.4             | 1.4             | 70         | Reel             |
| <b>ABF 12 LC/APC 12 G657A1 TIA598 REEL, 100m</b><br>RPM258230/100M  | Dark blue | 12            | –      | 20               | 5                               | 1.4             | 1.4             | 100        | Reel             |
| <b>ABF 12 LC/APC 12 G657A1 TIA598 REEL, 150m</b><br>RPM258230/150M  | Dark blue | 12            | –      | 20               | 5                               | 1.4             | 1.4             | 150        | Reel             |
| <b>ABF 12 LC/APC 12 G657A1 TIA598 REEL</b><br>RPM258230/200M        | Dark blue | 12            | –      | 20               | 5                               | 1.4             | 1.4             | 200        | Reel             |
| <b>ABF 12 LC/APC 12 G657A1 TIA598 REEL, 250m</b><br>RPM258230/250M  | Dark blue | 12            | –      | 20               | 5                               | 1.4             | 1.4             | 250        | Reel             |
| <b>ABF 12 LC/APC 12 G657A1 TIA598 REEL, 300m</b><br>RPM258230/300M  | Dark blue | 12            | –      | 20               | 5                               | 1.4             | 1.4             | 300        | Reel             |

| Article name                                                       | Color     | No. of Fibers | Layout | Bend Radius [mm] | Tensile Force, Installation [N] | Diameter Ø [mm] | Dimensions [mm] | Length [m] | Form of Delivery |
|--------------------------------------------------------------------|-----------|---------------|--------|------------------|---------------------------------|-----------------|-----------------|------------|------------------|
| <b>ABF 12 LC/APC 12 G657A1 TIA598 REEL, 350m</b><br>RPM258230/350M | Dark blue | 12            | –      | 20               | 5                               | 1.4             | 1.4             | 350        | Reel             |
| <b>ABF 12 LC/APC 12 G657A1 TIA598 REEL, 400m</b><br>RPM258230/400M | Dark blue | 12            | –      | 20               | 5                               | 1.4             | 1.4             | 400        | Reel             |
| <b>ABF 12 LC/APC 12 G657A1 TIA598 REEL, 500m</b><br>RPM258230/500M | Dark blue | 12            | –      | 20               | 5                               | 1.4             | 1.4             | 500        | Reel             |
| <b>ABF 12 LC/APC 12 G657A1 TIA598 REEL, 600m</b><br>RPM258230/600M | Dark blue | 12            | –      | 20               | 5                               | 1.4             | 1.4             | 600        | Reel             |
| <b>ABF 12 LC/APC 12 G657A1 TIA598 REEL, 700m</b><br>RPM258230/700M | Dark blue | 12            | –      | 20               | 5                               | 1.4             | 1.4             | 700        | Reel             |
| <b>ABF 12 LC/APC 12 G657A1 TIA598 REEL, 800m</b><br>RPM258230/800M | Dark blue | 12            | –      | 20               | 5                               | 1.4             | 1.4             | 800        | Reel             |