

*STRUCTURE AND DIMENSIONS*

- Coated optical fibre Ø 250/400/900 µm
- Reinforcing elements : aramide yarns
- Outer sheath in LSHF-FR material Ø 2.80 mm ± 0.15 mm  
Thickness : 0.60 mm

*MECHANICAL AND THERMAL PERFORMANCES*

- Weight 8 g/m
- Maximum pulling force (IEC-794-1-E1) 75 daN
- Maximum operating pulling force 35 daN
- Minimum bending radius 35 mm
- Compression (IEC-794-1-E3) 250 daN/dm
- Impacts (IEC-794-1-E4) 100 impacts of 1 N.m
- Operating temperature range (IEC-794-1-F1) -10°C +60°C
- Storage temperature range -30°C +60°C
- LSHF-FR (Low Smoke Halogen Free - Flame Retardant) (IEC-332-3/C)

*MARKING*

"NEXANS FIBRE OPTIC CABLE – SC – SP 464 - fibre count x fibre type – FB – task number – metric marking"

\* Nexans, GIGAlite II, 3 or 4 (depending on the selected fibre quality)

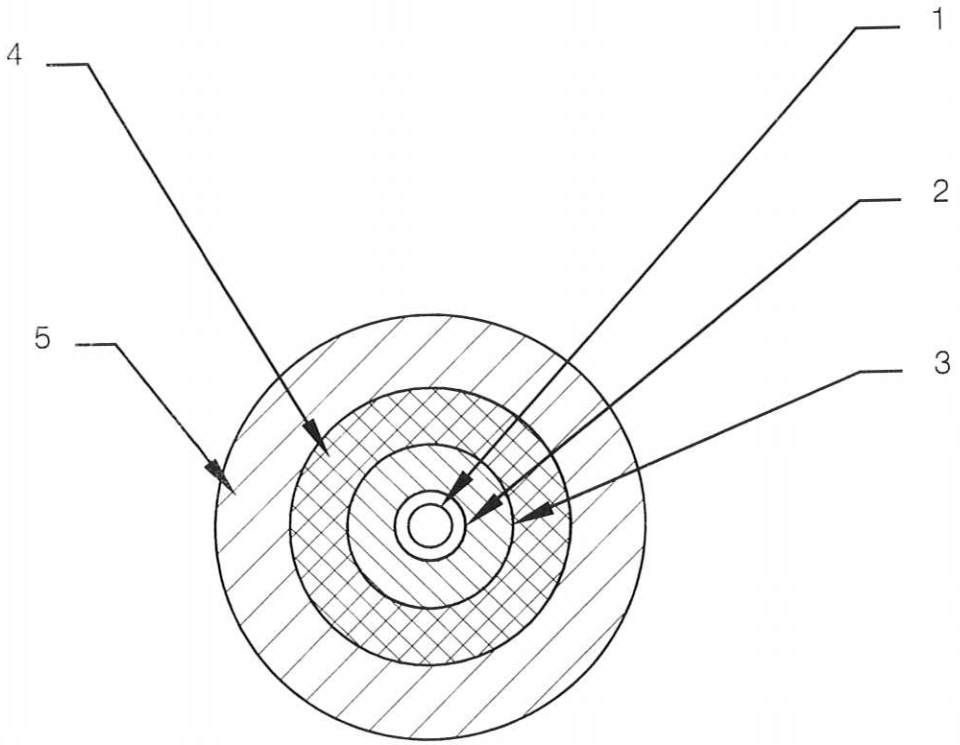
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**Issued by**

L. Alessi

**Approved by**

R. Helvenstein



- 1 : Optical fibre
- 2 : Coating Ø 400 µm
- 3 : Coating Ø 900 µm
- 4 : Reinforcing elements of aramide yarns
- 5 : Outer sheath of LSZH-FR material

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*STRUCTURE AND DIMENSIONS*

- |                                       |                     |
|---------------------------------------|---------------------|
| - Coated optical fibre                | Ø 250/900 µm        |
| - Reinforcing elements : aramid yarns |                     |
| - Outer sheath of LSHF-FR material    | Ø 2.80 mm ± 0.15 mm |
|                                       | Ø 5.80 mm ± 0.25 mm |
|                                       | Thickness : 0.6 mm  |

*MECHANICAL AND THERMAL PERFORMANCES*

- |   |                      |
|---|----------------------|
| - Weight  | 14 g/m               |
| - Maximum pulling force (IEC-794-1-E1)                                    | 90 daN               |
| - Maximum operating pulling force   | 45 daN               |
| - Minimum bending radius  | 35 mm                |
| - Compression (IEC-794-1-E3)  | 300 daN/dm           |
| - Impacts (IEC-794-1-E4)  | 100 impacts of 1 N.m |
| - Operating temperature range (IEC-794-1-F1)                              | -10°C +60°C          |
| - Storage temperature range   | -30°C +60°C          |
| - LSHF-FR material (Low Smoke Halogen Free-Flame Retardant) (IEC-332-3/C) |                      |

*MARKING*

"NEXANS FIBRE OPTIC CABLE – ZC – SP526 - fibre count x fibre type – FB – task number – metric marking"

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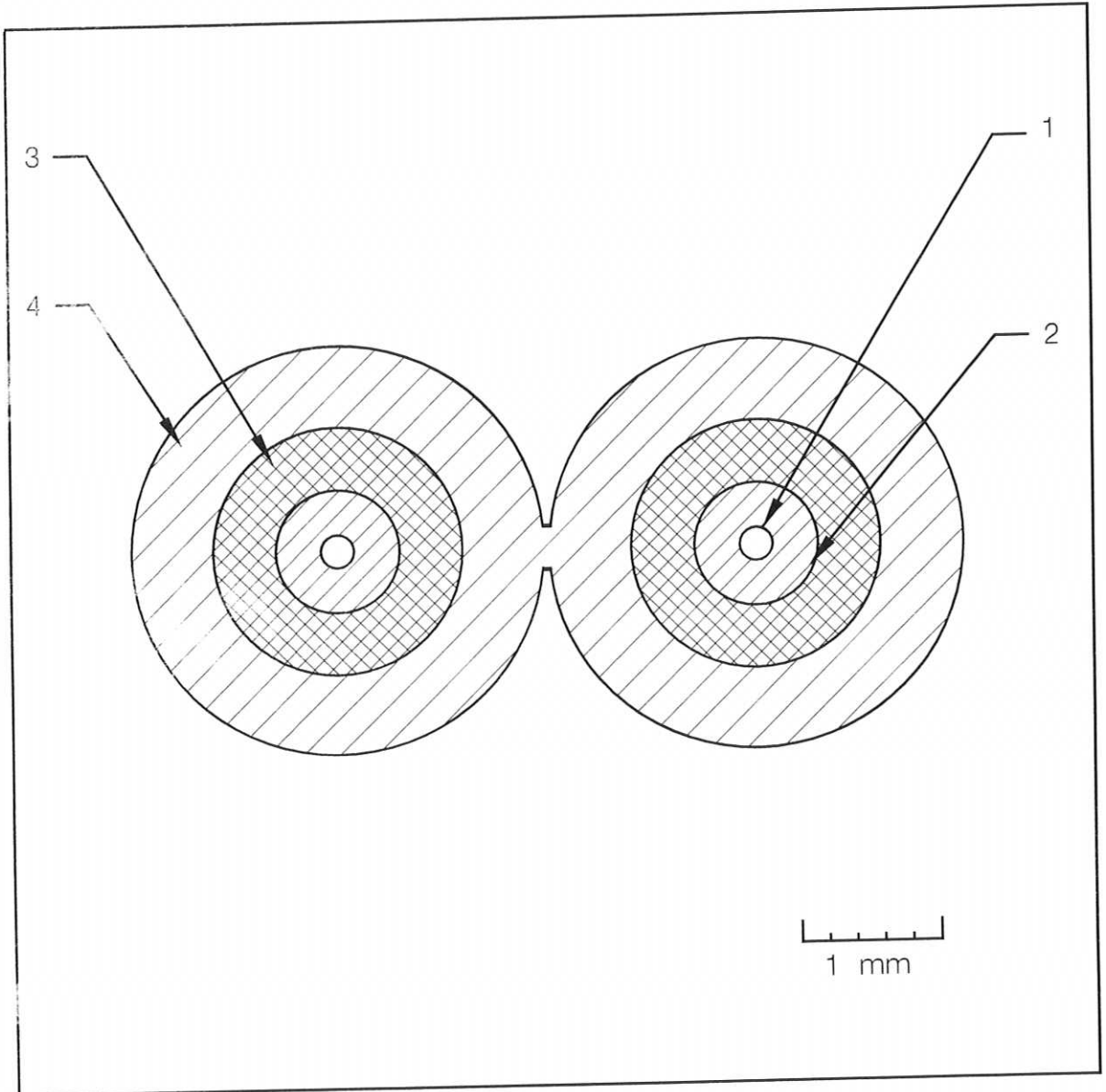
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- 1 : Optical fibre
- 2 : Coating  $\varnothing$  900  $\mu$ m
- 3 : Reinforcing elements in aramid yarns
- 4 : Outer sheath of LSZH-FR material

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## URM 76 HF COAXIAL 50 Ω

### Main characteristics

- Operating temperature: -20 to +80°C
- Flame resistance according to: CEI 332 -1
- Nominal capacitance: 105 pF/m
- Nominal propagation velocity : 65.9 %
- Characteristic impedance at 200 MHz: 50 ± 3 Ω
- Test Voltage: 1500 V<sub>AC</sub> / min

### PRODUCT REFERENCE

FILOTEX Ref: 2PE 380

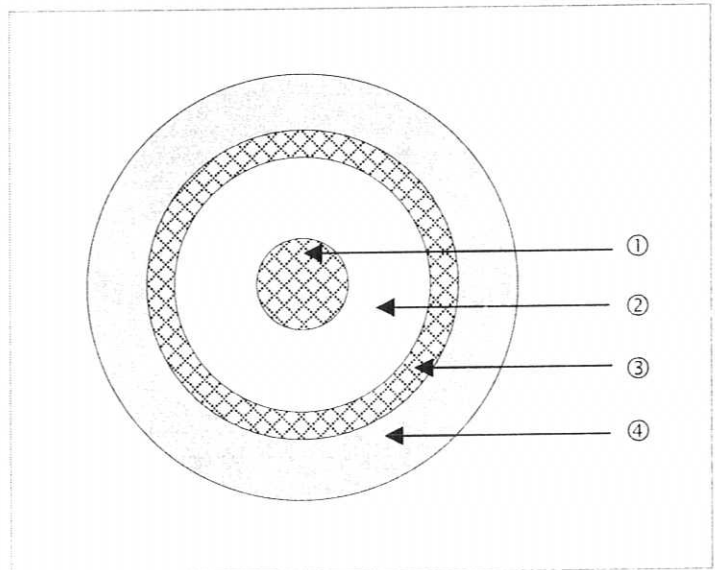
### CONSTRUCTION

1- CONDUCTOR:  
Stranded 7x0.32mm  
Bare copper Ø = 0.95 mm

2- DIELECTRIC:  
Polyethylene  
Ø = 3.00 mm ± 0.10

3- SCREEN:  
Single braid bare copper

4- JACKET:  
HALOGEN FREE  
Ø = 5.00 mm ± 0.10



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URM 76  
COAXIAL 50 Ω

## PRODUCT REFERENCE

FILOTEX Ref: **375 488**

### Main characteristics

- Operating temperature: -40 to +85°C
- Flame resistance according to: CEI 332 -1
- Nominal capacitance: 105 pF/m
- Nominal propagation velocity : 65.9 %
- Characteristic impedance at 200 MHz: 50 Ω ± 3 %
- Test Voltage: 1500 V<sub>AC</sub> / min

### Application

High frequency connections.

## CONSTRUCTION

### 1- CONDUCTOR:

Stranded 7x0.32mm

Bare copper = 0.95 mm

### 2- DIELECTRIC:

Foam Polyethylene

= 3.00 mm ± 0.10

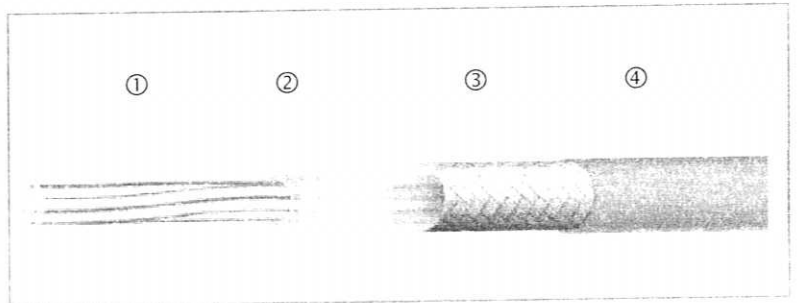
### 3- SCREEN:

Single braid bare copper

### 4- JACKET:

PVC

= 5.00 mm ± 0.10

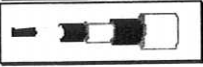


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**URM 70 LSF**  
**COAXIAL 75 Ω**

## PRODUCT REFERENCE

FILOTEX Ref: **2PE 379**

### Main characteristics

- Operating temperature: - 20 to +80°C
- Flame resistance according to: CEI 332 -1
- Nominal capacitance: 71.5 pF/m
- Nominal propagation velocity : 65.9 %
- Characteristic impedance at 200 MHz: 75  $\rho$  4 :
- Attenuation at 200 MHz:  $\leq$  21.8 dB/100 m
- Test Voltage: 1500 V<sub>AC</sub> / min

### Application

High frequency connections.

## CONSTRUCTION

### 1- CONDUCTOR:

Stranded 7x0.20mm  
Bare copper = 0.60 mm

### 2- DIELECTRIC:

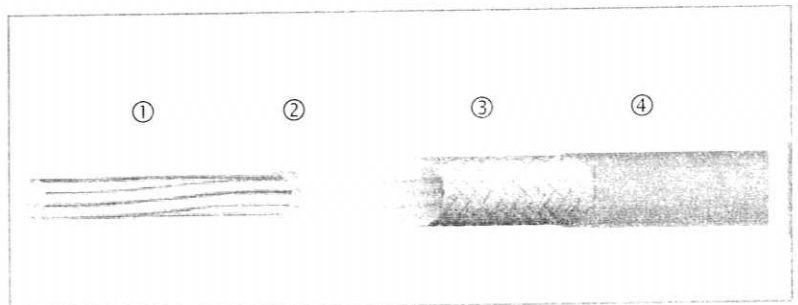
Solid Polyethylene  
= 3.25 mm  $\rho$  0.10

### 3- SCREEN:


Single braid bare copper

### 4- JACKET:

Halogen free  
= 5.80 mm  $\rho$  0.10



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## URM 70 COAXIAL 75 Ω

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### PRODUCT REFERENCE

FILOTEX Ref: **390 591**

### Main characteristics

- Operating temperature: - 40 to +85°C
- Flame resistance according to: CEI 332 -1
- Nominal capacitance: 71.5 pF/m
- Nominal propagation velocity : 65.9 %
- Characteristic impedance at 200 MHz: 75 Ω
- Attenuation at 200 MHz: ≤ 21.8 dB/100 m
- Test Voltage: 1500 V<sub>AC</sub> / min

### Application

High frequency connections.

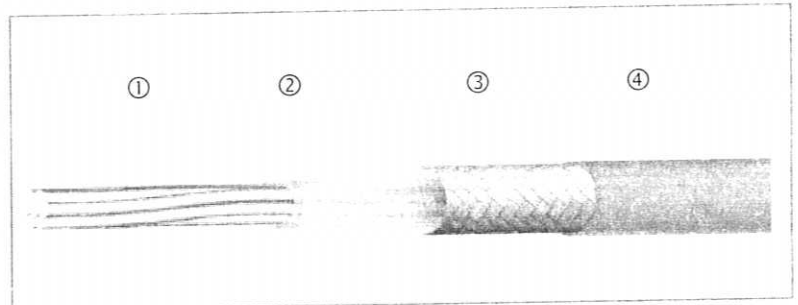
### CONSTRUCTION

1- CONDUCTOR:  
Stranded 7x0.20mm  
Bare copper = 0.60 mm

2- DIELECTRIC:  
Solid Polyethylene  
= 3.25 mm ± 0.10

3- SCREEN:  
Single braid bare copper

4- JACKET:  
PVC  
= 5.80 mm ± 0.10





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## URM 67 COAXIAL 50 Ω

### Main characteristics

- Operating temperature: - 40 to +85°C
- Nominal capacitance: 105 pF/m
- Nominal propagation velocity : 65.9 %
- Characteristic impedance at 200 MHz: 50 p 3 :

### PRODUCT REFERENCE

FILOTEX Ref: **390 613**

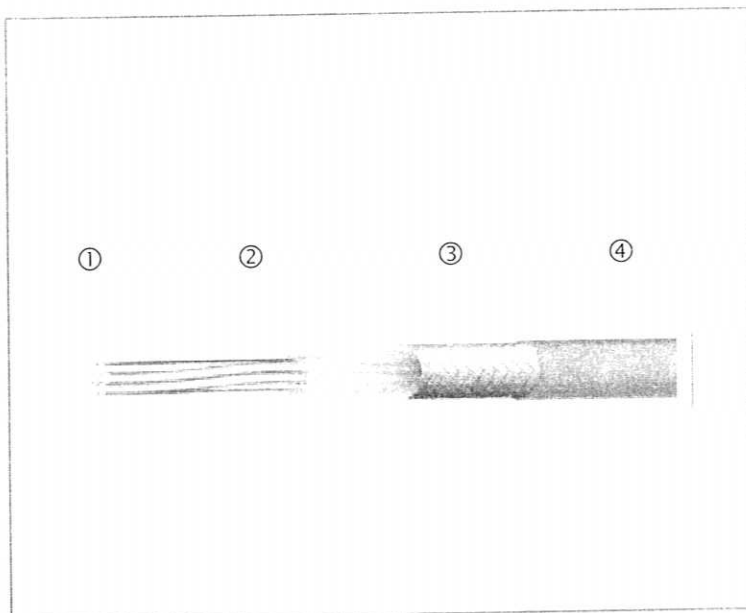
### CONSTRUCTION

1- CONDUCTOR:  
Stranded 7x0.75mm  
Bare copper = 2.25 mm


2- DIELECTRIC:  
Solid Polyethylene  
= 7.25 mm ρ 0.25

3- SCREEN:  
Single braid bare copper

4- JACKET:  
PVC  
= 10.30 mm ρ 0.15



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## URM 43 COAXIAL 50 Ω

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### PRODUCT REFERENCE

FILOTEX Ref: **277 837**

### Main characteristics

- Operating temperature: - 40 to +85°C
- Flame resistance according to: CEI 332 -1
- Nominal capacitance: 108 pF/m
- Nominal propagation velocity : 65.9 %
- Characteristic impedance at 200 MHz: 50 Ω
- Attenuation at 200 MHz: ≤ 20.7 dB/100 m
- Test Voltage: 1500 V<sub>AC</sub> / 1min

### Application

High frequency connections.

### CONSTRUCTION

#### 1- CONDUCTOR:

Bare copper = 0.90 mm

#### 2- DIELECTRIC:

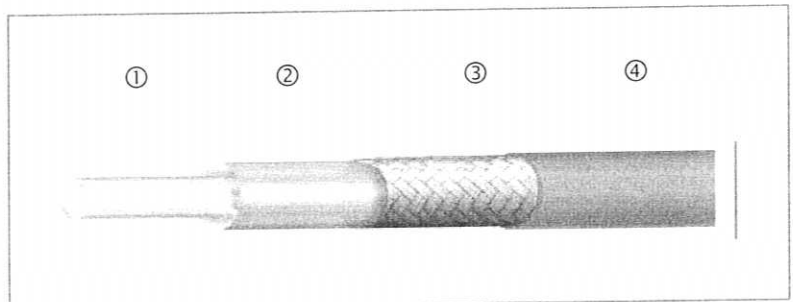
Solid Polyethylene  
= 3.02 mm ρ 0.05

#### 3- SCREEN:

Single braid bare copper

#### 4- JACKET:

PVC  
= 5.00 mm ρ 0.10



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## URM 76 LSF COAXIAL 50 Ω

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### PRODUCT REFERENCE

FILOTEX Ref: **2PE 380**

### Main characteristics

- Operating temperature: -20 to +80°C
- Flame resistance according to: CEI 332 -1
- Nominal capacitance: 105 pF/m
- Nominal propagation velocity : 65.9 %
- Characteristic impedance at 200 MHz: 50 p 3 :
- Test Voltage: 1500 V<sub>AC</sub> / min

### Application

High frequency connections.

### CONSTRUCTION

#### 1- CONDUCTOR:

Stranded 7x0.32mm

Bare copper = 0.95 mm

#### 2- DIELECTRIC:

Foam Polyethylene

= 3.00 mm ρ 0.10

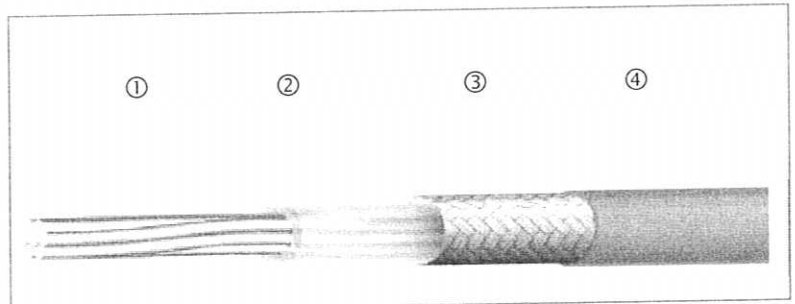
#### 3- SCREEN:

Single braid bare copper

#### 4- JACKET:

HALOGEN FREE

= 5.00 mm ρ 0.10



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**M17/167-00001 (RG 223 U)**  
**COAXIAL 50 Ω**  
**85°C Polyethylene**

## PRODUCT REFERENCE

FILOTEX Ref:  
**RG 223 U (ET 373184)**

## CONSTRUCTION

- 1- CONDUCTOR:  
Solid 1x0.89  
Silver plated copper  
= 0.89 mm
- 2- DIELECTRIC:  
Solid Polyethylene  
= 2.95 mm ϕ 0.10
- 3- SCREEN:  
Double braid  
Silver plated copper
- 4- JACKET:  
PVC  
= 5.38 mm ϕ 0.10

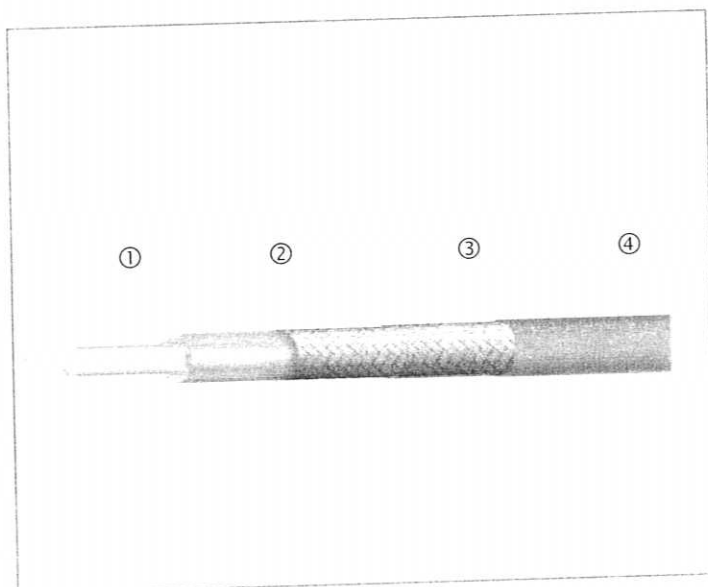
To: MIL C17

### Main characteristics

- Operating temperature: - 40 to +85°C
- Continuous working voltage: 1400 volts
- Maximal operating frequency: 12.4 GHz
- Good resistance to flame NFC 32070/C2 & CEI 332 -1&2
- Capacitance: < 106 pF/m
- Relative velocity of propagation: 65.9 %
- Characteristic impedance at 200 MHz: 50 Ω
- Attenuation
  - at 200 MHz : 20 dB/100 m
  - at 400 MHz : 30 dB/100 m
  - at 3000 MHz : 100 dB/100m
  - at 10000 MHz : 240 dB/100 m
- Dielectric withstanding at 50 Hz: 5 kV
- Nominal weight: 55 kg/km

### Application

High frequency connections.



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**M17/169-00001 (RG 178 B/U)**  
**M17/93-00001 (RG 196)**  
**COAXIAL 50 Ω**  
**200°C/230°C PTFE**

## PRODUCT REFERENCE

FILOTEX Ref:

**RG 178 B/U (ET 087069)**  
**RG 196 (ET 087247)**

## CONSTRUCTION

### 1- CONDUCTOR:

Stranded 7x0.10  
Silver plated copper clad steel  
= 0.30 mm

### 2- DIELECTRIC:

Extruded PTFE  
= 0.84 mm  $\rho$  0.05

### 3- SCREEN:

Single braid  
Silver plated copper

### 4- JACKET:

T° = 200°C FEP (RG178BU)  
T° = 230°C PFA (RG196)  
= 1.80 mm  $\rho$  0.10

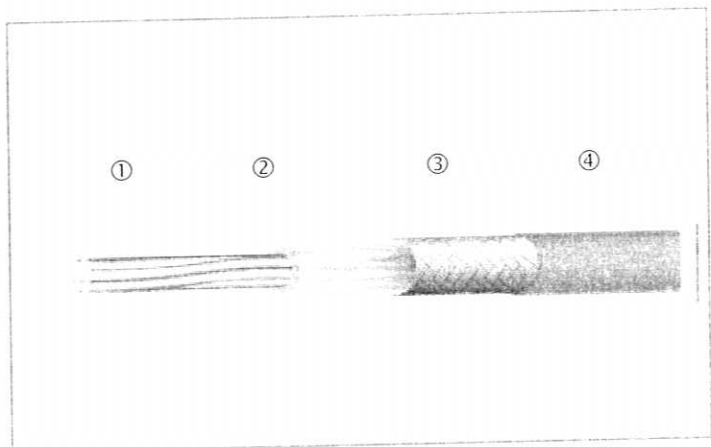
To: MIL C17

### Main characteristics

- Operating temperature: - 90 to +200°C (FEP JACKET)  
- 90 to + 230°C (PFA JACKET)
- Maximal operating frequency: 3 GHz
- Continuous working voltage: 750 volts
- Good resistance to aircraft fluids.
- Good resistance to flame NFC 32070/C1 & C2 (CEI 332 -1)
- Capacitance: < 105 pF/m
- Relative velocity of propagation: 69.5 %
- Characteristic impedance at 200 MHz: 50  $\rho$  2 :
- Attenuation at 200 MHz : 58 dB/100 m  
at 400 MHz : 80 dB/100 m  
at 3000 MHz : 225 dB/100m
- Dielectric withstanding at 50 Hz: 2 kV
- Nominal weight: 9.6 kg/km

### Application

High frequency connections operating at high temperature.  
By their small dimensions, they are mainly designed for miniaturized connections, operating at high or low temperature.

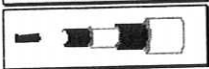


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**KX 15 / RG 58 C/U**  
**COAXIAL 50 Ω**  
**85°C Polyethylene**

## PRODUCT REFERENCE

FILOTEX Ref:

**KX 15 / RG 58 C/U**  
**(ET 373117)**

## CONSTRUCTION

### 1- CONDUCTOR:

Stranded 19x0.18  
Tin plated copper  
= 0.90 mm

### 2- DIELECTRIC:

Solid Polyethylene  
= 2.95 mm ρ 0.10

### 3- SCREEN:

Single braid  
Tin plated copper

### 4- JACKET:

PVC  
= 4.95 mm ρ 0.15

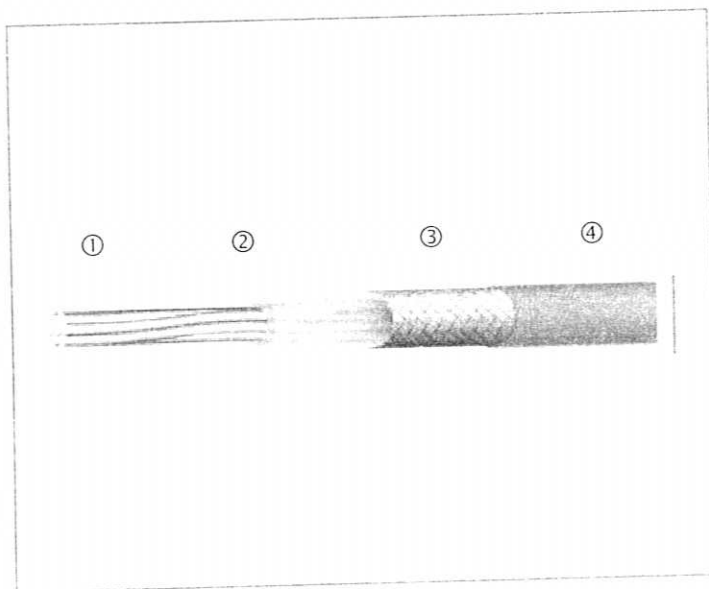
To: NF C93550, MIL C17

### Main characteristics

- Operating temperature: - 40 to +85°C
- Continuous working voltage: 1400 volts
- Maximal operating frequency: 3 GHz
- Good resistance to flame NFC 32070/C2 & CEI 332 -1&2
- Capacitance: 100 p 5 pF/m
- Relative velocity of propagation: 65.9 %
- Characteristic impedance at 200 MHz: 50 ρ 2 :
- Attenuation       at 200 MHz : 23 dB/100 m  
                          at 400 MHz : 32 dB/100 m  
                          at 3000 MHz : 98 dB/100 m
- Dielectric withstanding at 50 Hz: 5 kV
- Nominal weight: 36 kg/km

### Application

High frequency connections.



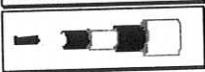
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**M17/77-RG216 (RG 216 U)**  
**COAXIAL 75 Ω**  
**85°C Polyethylene**

## PRODUCT REFERENCE

FILOTEX Ref:

**RG 216 U (ET 373182)**

## CONSTRUCTION

### 1- CONDUCTOR:

Stranded 7x0.40  
Tin plated copper  
= 1.20 mm

### 2- DIELECTRIC:

Solid Polyethylene  
= 7.24 mm ρ 0.18

### 3- SCREEN:

Double braid  
Bare copper

### 4- JACKET:

PVC  
= 10.80 mm ρ 0.18

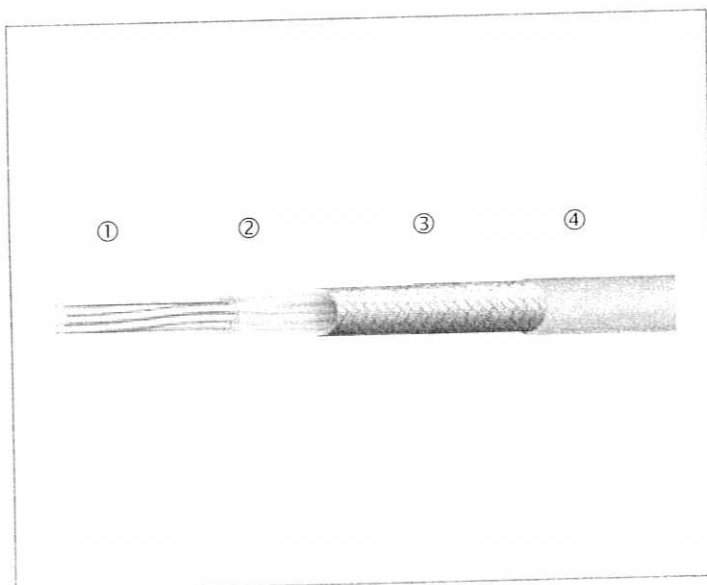
To: MIL C17

### Main characteristics


- Operating temperature: - 40 to +85°C
- Continuous working voltage: 3700 volts
- Maximal operating frequency: 3 GHz
- Good resistance to flame NFC 32070/C2 & CEI 332 -1&2
- Capacitance: <72.2 pF/m
- Relative velocity of propagation: 65.9 %
- Characteristic impedance at 200 MHz: 75 ρ 3 :
- Attenuation           at 200 MHz : 9.5 dB/100 m  
                                  at 400 MHz : 13 dB/100 m  
                                  at 3000 MHz : 45 dB/100m
- Dielectric withstanding at 50 Hz: 10 kV
- Nominal weight: 177 kg/km

### Application

High frequency connections.



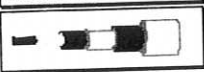
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## M17/29-RG059 (RG 59 B/U) COAXIAL 75 Ω 85°C Polyethylene

### PRODUCT REFERENCE

FILOTEX Ref:

**RG 59 B/U (ET 373757)**

### CONSTRUCTION

#### 1- CONDUCTOR:

Solid 1x0.58  
Copper clad steel  
= 0.58 mm

#### 2- DIELECTRIC:

Solid Polyethylene  
= 3.71 mm ρ 0.10

#### 3- SCREEN:

Single braid  
Bare copper

#### 4- JACKET:

PVC  
= 6.15 mm ρ 0.10

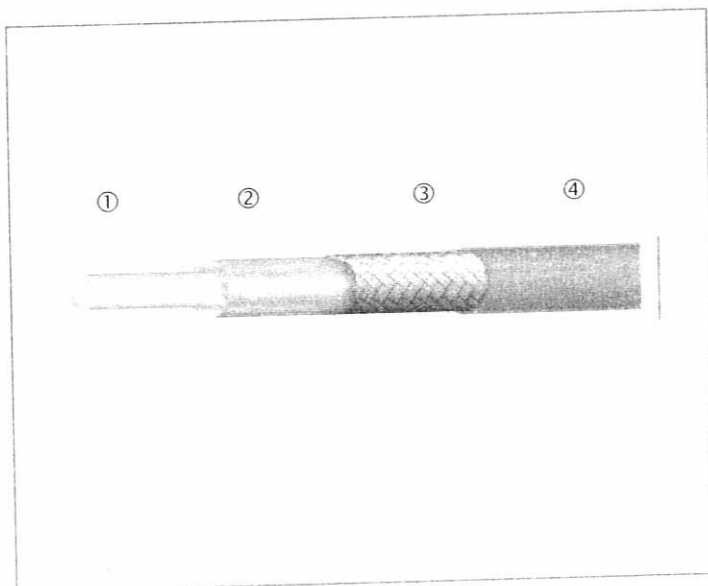
To: MIL C17

#### Main characteristics

- Operating temperature: - 40 to +85°C
- Continuous working voltage: 1700 volts
- Maximal operating frequency: 1 GHz
- Good resistance to flame NFC 32070/C2 (CEI 332 -1&2)
- Capacitance: <72.2 pF/m
- Relative velocity of propagation: 65.9 %
- Characteristic impedance at 200 MHz: 75 ρ 3 :
- Attenuation       at 200 MHz : 16 dB/100 m  
                          at 400 MHz : 23 dB/100 m  
                          at 3000 MHz : 73 dB/100m
- Dielectric withstanding at 50 Hz: 7 kV
- Nominal weight: 50 kg/km

#### Application

High frequency connections.



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**M17/94-RG179 (RG179BU)**  
**M17/136-00001 (RG187AU)**  
**COAXIAL 75 Ω**  
**200°C/230°C PTFE**

## PRODUCT REFERENCE

FILOTEX Ref:

**RG 179 B/U (ET 081997)**  
**RG 187 A/U (ET 087244)**

## CONSTRUCTION

### 1- CONDUCTOR:

Stranded 7x0.10

Silver plated copper clad steel  
= 0.30 mm

### 2- DIELECTRIC:

Extruded PTFE

= 1.60 mm ρ 0.08

### 3- SCREEN:

Single braid

Silver plated copper

### 4- JACKET:

T° = 200°C FEP (RG179BU)

T° = 230°C PFA (RG187AU)

= 2.54 mm ρ 0.13

## To: MIL C17

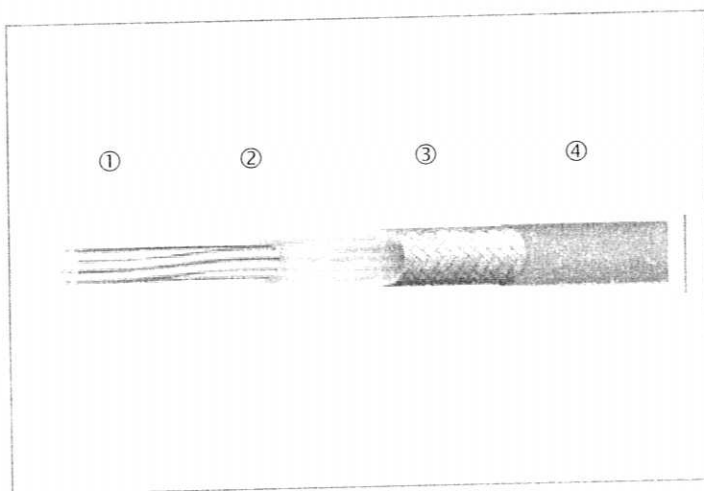
### Main characteristics

- Operating temperature: - 90 to +200°C (FEP JACKET)  
- 90 to + 230°C (PFA JACKET)
- Maximal operating frequency: 3 GHz
- Continuous working voltage: 900 volts
- Good resistance to aircraft fluids.
- Good resistance to flame NFC 32070/C1 & C2 (CEI 332 -1)
- Capacitance: < 75.5 pF/m (FEP JACKET) / < 72.2 pF/m (PFA JACKET)
- Relative velocity of propagation: 69.5 %
- Characteristic impedance at 200 MHz: 75 ρ 3 :
- Attenuation           at 200 MHz : 40 dB/100 m  
                              at 400 MHz : 56 dB/100 m  
                              at 3000 MHz : 160 dB/100m
- Dielectric withstanding at 50 Hz: 2 kV
- Nominal weight: 16.9 kg/km

### Application

High frequency connections operating at high temperature.

By their small dimensions, they are mainly designed for miniaturized connections, operating at high or low temperature.



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**M17/30-RG062 (RG 62 A/U)**  
**COAXIAL 93 Ω**  
**85°C Polyethylene**

**PRODUCT REFERENCE**

FILOTEX Ref:

**RG 62 A/U (ET 373148)**

**CONSTRUCTION**

**1- CONDUCTOR:**

Solid 1x0.64  
Copper clad steel  
= 0.64 mm

**2- DIELECTRIC:**

Semi-air-spaced polyethylene  
= 3.71 mm ρ 0.13

**3- SCREEN:**

Single braid  
Bare copper

**4- JACKET:**

PVC  
= 6.15 mm ρ 0.18

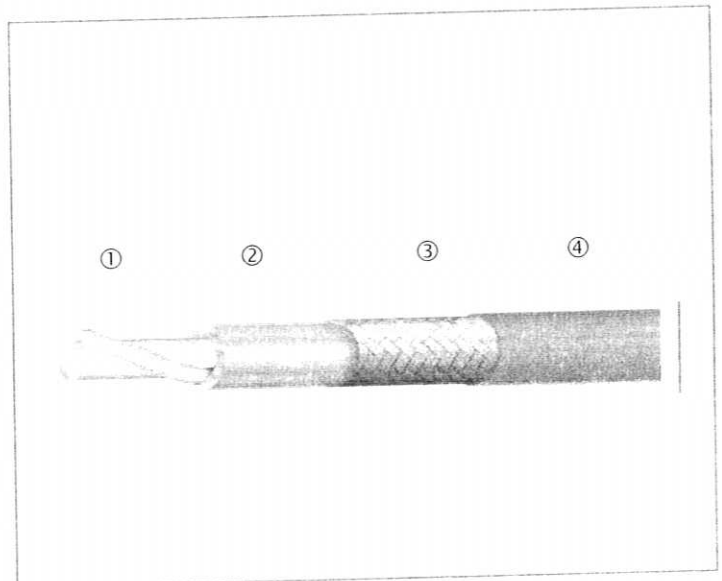
**To: MIL C17**

**Main characteristics**

- Operating temperature: - 40 to +85°C
- Continuous working voltage: 750 volts
- Maximal operating frequency: 1 GHz
- Good resistance to flame NFC 32070/C2 (CEI 332 -1&2)
- Capacitance: < 47.6 pF/m
- Relative velocity of propagation: 83 %
- Characteristic impedance at 200 MHz: 93 ρ 5 :
- Attenuation           at 200 MHz : 14 dB/100 m  
                                  at 400 MHz : 22 dB/100 m  
                                  at 3000 MHz : 100 dB/100m
- Dielectric withstanding at 50 Hz: 3 kV
- Nominal weight: 46 kg/km


**Application**

High frequency connections.



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 **Nexans**

Issue 1 06/06/2003



Filotex®

**M17/29-RG059 (RG 59 B/U)**  
**COAXIAL 75 Ω**  
**85°C Polyethylene**

**PRODUCT REFERENCE**

FILOTEX Ref:

**RG 59 B/U (ET 373757)**

**CONSTRUCTION**

- 1- CONDUCTOR:  
 Solid 1x0.58  
 Copper clad steel  
 = 0.58 mm
- 2- DIELECTRIC:  
 Solid Polyethylene  
 = 3.71 mm ρ 0.10
- 3- SCREEN:  
 Single braid  
 Bare copper
- 4- JACKET:  
 PVC  
 = 6.15 mm ρ 0.10

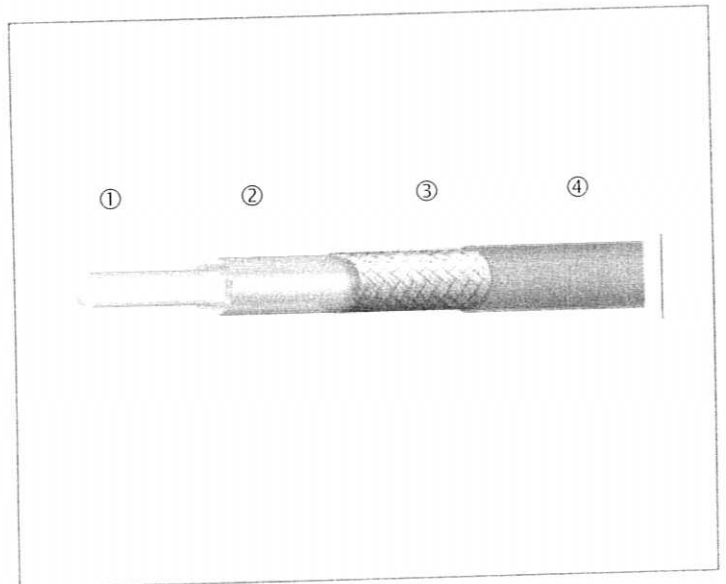
**To: MIL C17**

**Main characteristics**

- Operating temperature: - 40 to +85°C
- Continuous working voltage: 1700 volts
- Maximal operating frequency: 1 GHz
- Good resistance to flame NFC 32070/C2 (CEI 332 -1&2)
- Capacitance: < 72.2 pF/m
- Relative velocity of propagation: 65.9 %
- Characteristic impedance at 200 MHz: 75 ρ 3 :
- Attenuation
  - at 200 MHz : 16 dB/100 m
  - at 400 MHz : 23 dB/100 m
  - at 3000 MHz : 73 dB/100m
- Dielectric withstanding at 50 Hz: 7 kV
- Nominal weight: 50 kg/km

**Application**

High frequency connections.





Filotex®

**KX 4 / RG 213 U**  
**COAXIAL 50 Ω**  
**85°C Polyethylene**

## PRODUCT REFERENCE

FILOTEX Ref:

**KX 4 / RG 213 U**  
**(ET 373099)**

## CONSTRUCTION

### 1- CONDUCTOR:

Stranded 7x0.75  
 Bare copper  
 = 2.25 mm

### 2- DIELECTRIC:

Solid Polyethylene  
 = 7.25 mm ρ 0.15

### 3- SCREEN:

Single braid  
 Bare copper

### 4- JACKET:

PVC  
 = 10.30 mm ρ 0.20

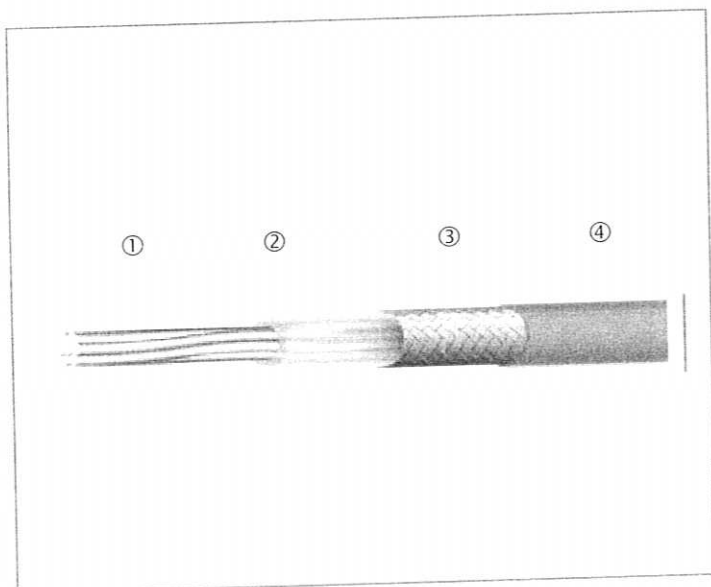
To: NF C93550, MIL C17

### Main characteristics

- Operating temperature: - 40 to +85°C
- Continuous working voltage: 3700 volts
- Maximal operating frequency: 3 GHz
- Good resistance to flame NFC 32070/C2 & CEI 332 -1&2
- Capacitance: 100 ρ 5 pF/m
- Relative velocity of propagation: 65.9 %
- Characteristic impedance at 200 MHz: 50 ρ 2 :
- Attenuation
  - at 200 MHz : 9.5 dB/100 m
  - at 400 MHz : 14.5 dB/100 m
  - at 3000 MHz : 55 dB/100 m
- Dielectric withstanding at 50 Hz: 5 kV
- Nominal weight: 158 kg/km

### Application

High frequency connections.



ELECTRONIC



Filotex<sup>®</sup>

## MULTICOAXIAL 26 X URM 43 CABLE 50 Ω

### Main characteristics

- Operating temperature: - 40 to +85°C
- Flame resistance according to: CEI 332 -1
- Nominal capacitance: 108 pF/m
- Nominal propagation velocity : 65.9 %
- Characteristic impedance at 200 MHz:  $50 \pm 2 \Omega$
- Attenuation at 200 MHz:  $\leq 20.7$  dB/100 m
- Test Voltage: 1500 V<sub>AC</sub> / 1min
- DC kV : 21
- RF kV : 2,6 peak
- Pulse kV : 5,2 peak
- Minimum bending radius = 180 mm

### PRODUCT REFERENCE

FILOTEX Ref: 2PH 102

### CONSTRUCTION

#### 1- CONDUCTOR:

Bare copper  $\varnothing = 0.90$  mm

#### DIELECTRIC:

Solid Polyethylene

$\varnothing = 3.02$  mm

#### SCREEN:

Single braid bare copper

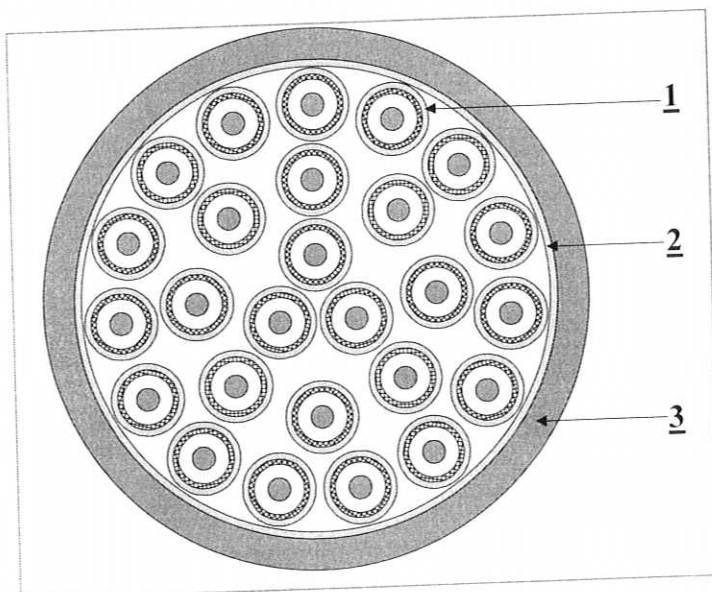
#### JACKET:

PVC

$\varnothing = 5.00$  mm

2- Polyester tape

3- PVC Jacket  $\varnothing = 30.60$  mm



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