

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

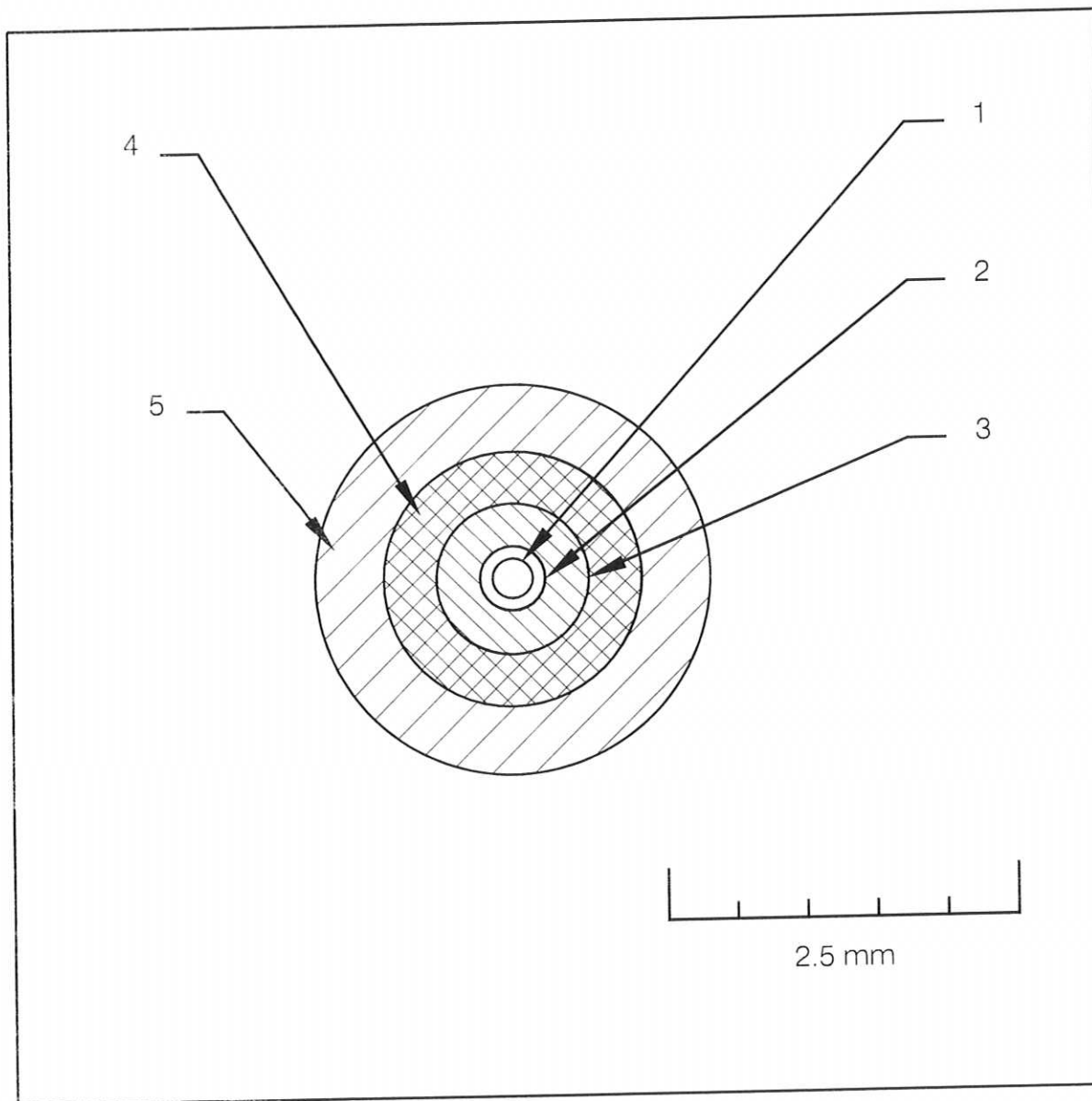
- Weight 8 g/m
- Maximum pulling force (IEC-794-1-E1) 75 daN
- Maximum operating pulling force 35 daN
- Minimum bending radius 35 mm
- Compression (IEC-794-1-E3) 250 daN/dm
- Impacts (IEC-794-1-E4) 100 impacts of 1 N.m
- Operating temperature range (IEC-794-1-F1) -10°C +60°C
- Storage temperature range -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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	L. Alessi	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 LSHF-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

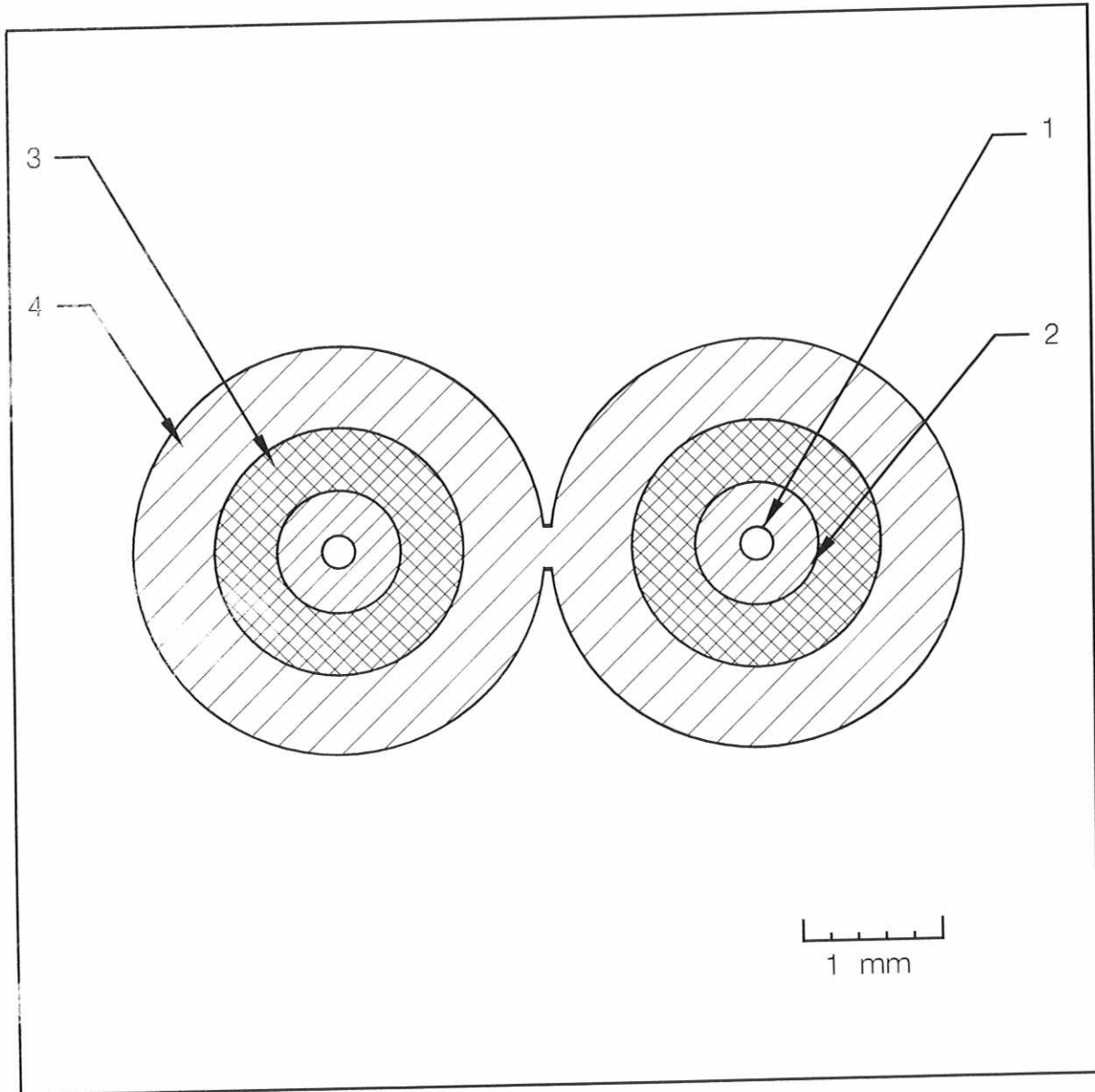
- Weight	14 g/m
- Maximum pulling force (IEC-794-1-E1)	90 daN
- Maximum operating pulling force	45 daN
- Minimum bending radius	35 mm
- Compression (IEC-794-1-E3)	300 daN/dm
- Impacts (IEC-794-1-E4)	100 impacts of 1 N.m
- Operating temperature range (IEC-794-1-F1)	-10°C +60°C
- Storage temperature range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

MARKING

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

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- 1 : Optical fibre
- 2 : Coating Ø 900 µm
- 3 : Reinforcing elements in aramid yarns
- 4 : Outer sheath of LSHF-FR material

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ELECTRONIC



Filotex®

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: $50 \pm 3 \Omega$
- Test Voltage: 1500 V_{AC} / min

PRODUCT REFERENCE

FILOTEX Ref: 2PE 380

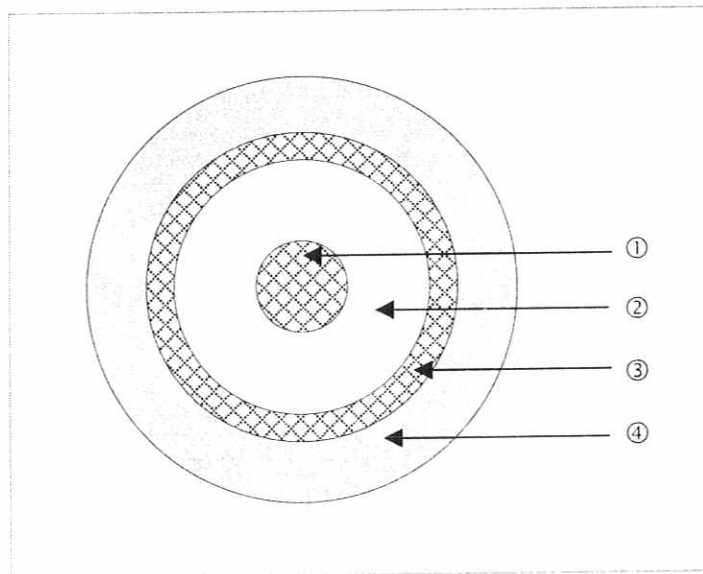
CONSTRUCTION

1- CONDUCTOR:
Stranded 7x0.32mm
Bare copper $\varnothing = 0.95$ mm

2- DIELECTRIC:
Polyethylene
 $\varnothing = 3.00$ mm ± 0.10


3- SCREEN:
Single braid bare copper

4- JACKET:
HALOGEN FREE
 $\varnothing = 5.00$ mm ± 0.10



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 nexans

Issue 2 23/01/2004

ELECTRONIC



URM 76 COAXIAL 50 Ω

Filotex®

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 p 3 :
- Test Voltage: 1500 V_{AC} / 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

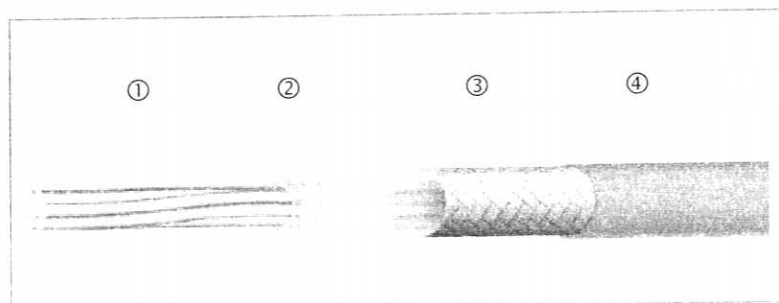
3- SCREEN:

Single braid bare copper

4- JACKET:

PVC

= 5.00 mm ρ 0.10



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Issue 1 21/10/2003

ELECTRONIC



URM 70 LSF COAXIAL 75 Ω

Filotex®

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 Ω
- Attenuation at 200 MHz: ≤ 21.8 dB/100 m
- Test Voltage: 1500 V_{AC} / min

Application

High frequency connections.

CONSTRUCTION

1- CONDUCTOR:

Stranded 7x0.20mm

Bare copper = 0.60 mm

2- DIELECTRIC:

Solid Polyethylene

= 3.25 mm ρ 0.10

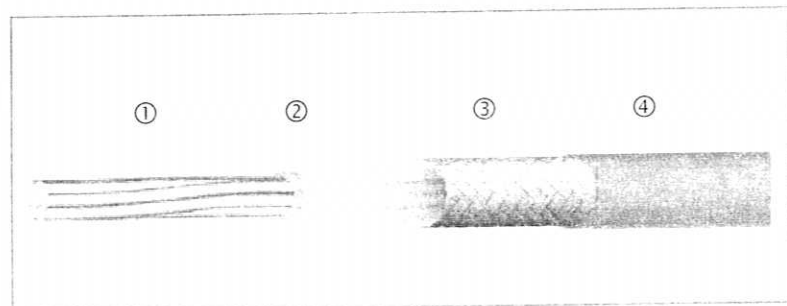
3- SCREEN:

Single braid bare copper

4- JACKET:

Halogen free

= 5.80 mm ρ 0.10



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ELECTRONIC



URM 70 COAXIAL 75 Ω

Filotex®

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_{AC} / min

Application

High frequency connections.

CONSTRUCTION

1- CONDUCTOR:

Stranded 7x0.20mm

Bare copper = 0.60 mm

2- DIELECTRIC:

Solid Polyethylene

= 3.25 mm ρ 0.10

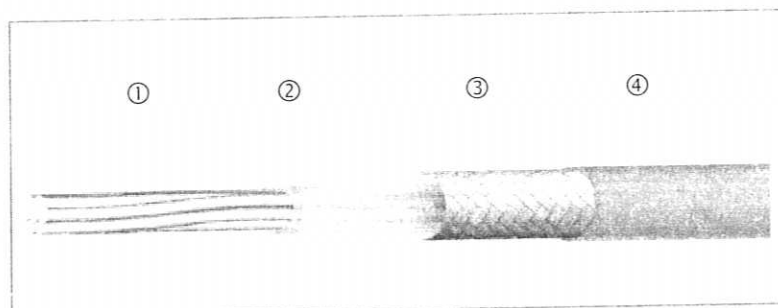
3- SCREEN:

Single braid bare copper

4- JACKET:

PVC

= 5.80 mm ρ 0.10



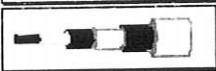
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ELECTRONIC



Filotex®

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:

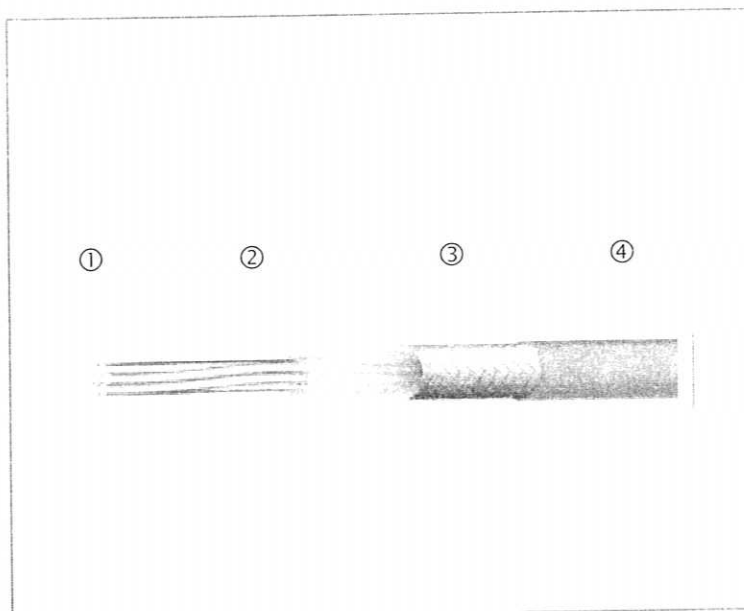
Solid Polyethylene
= 7.25 mm p 0.25

3- SCREEN:

Single braid bare copper

4- JACKET:

PVC
= 10.30 mm p 0.15



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ELECTRONIC



Filotex®

URM 43
COAXIAL 50 Ω

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_{AC} / 1min

Application

High frequency connections.

CONSTRUCTION

1- CONDUCTOR:

Bare copper = 0.90 mm

2- DIELECTRIC:

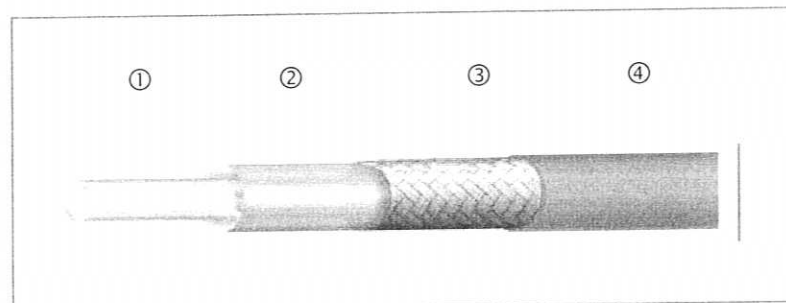
Solid Polyethylene
= 3.02 mm ρ 0.05

3- SCREEN:

Single braid bare copper

4- JACKET:

PVC
= 5.00 mm ρ 0.10



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ELECTRONIC



URM 76 LSF COAXIAL 50 Ω

Filotex®

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 Ω ± 3 %
- Test Voltage: 1500 V_{AC} / 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

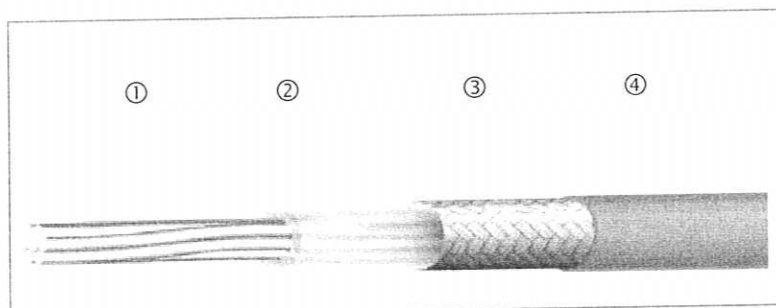
3- SCREEN:

Single braid bare copper

4- JACKET:

HALOGEN FREE

= 5.00 mm ρ 0.10



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ELECTRONIC



Filotex®

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 ρ 0.10

3- SCREEN:

Double braid
Silver plated copper

4- JACKET:

PVC
= 5.38 mm ρ 0.10

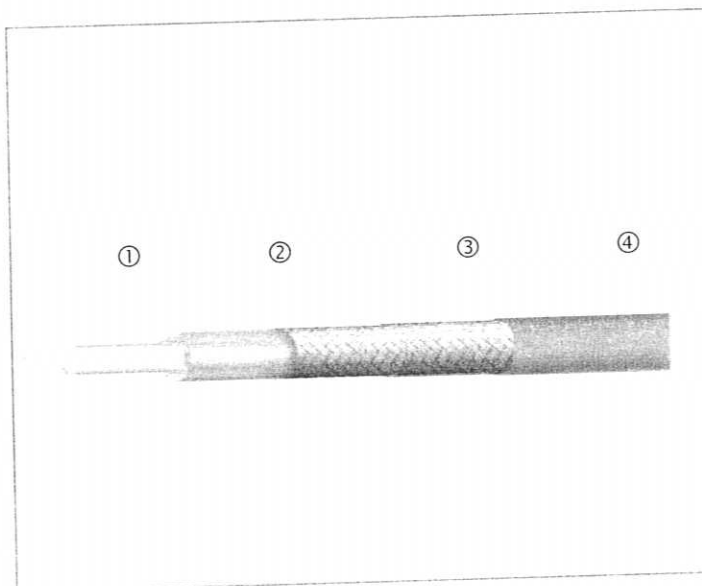
To: MIL C17

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 ρ 2 :
- 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.

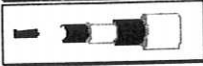


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Issue 1 06/06/2003

ELECTRONIC



Filotex®

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 ρ 0.05

3- SCREEN:

Single braid
Silver plated copper

4- JACKET:

T° = 200°C FEP (RG178BU)
T° = 230°C PFA (RG196)
= 1.80 mm ρ 0.10

To: MIL C17

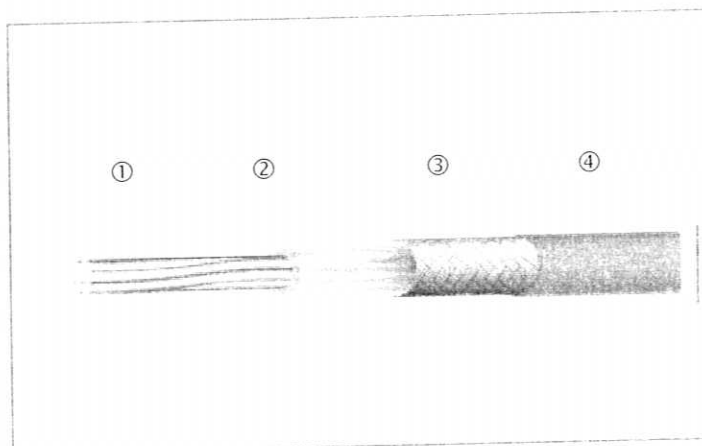
Main characteristics

- 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 ρ 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.

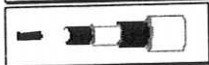


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Issue 1 06/06/2003

ELECTRONIC



Filotex®

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

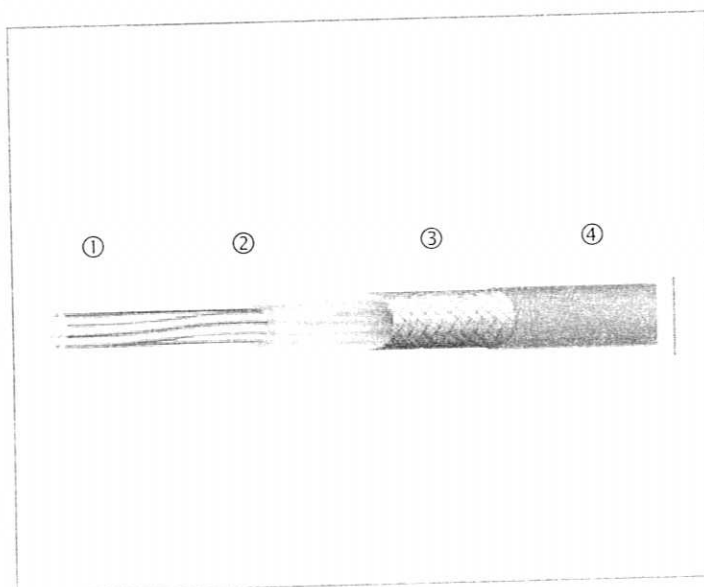
To: NF C93550, MIL C17

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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Issue 1 - June 2003

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ELECTRONIC



Filotex®

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

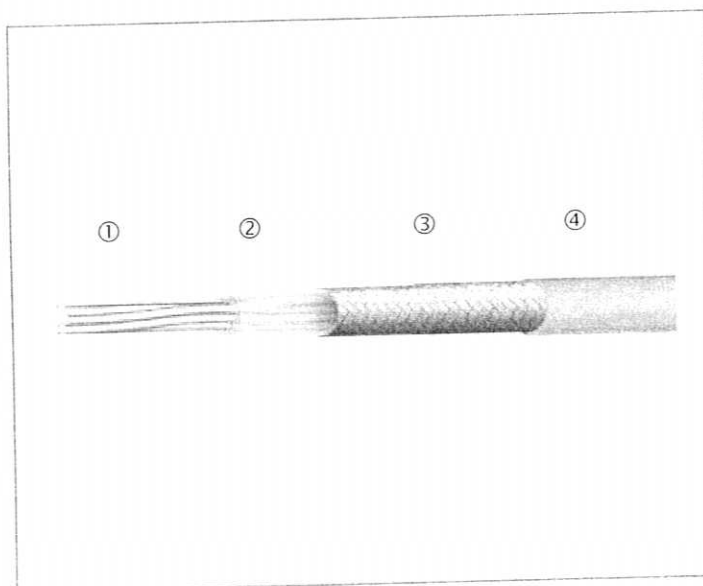
To: MIL C17

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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ELECTRONIC



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

Filotex[®]

PRODUCT REFERENCE

FILOTEX Ref:

RG 59 B/U (ET 373757)

To: MIL C17

Main characteristics

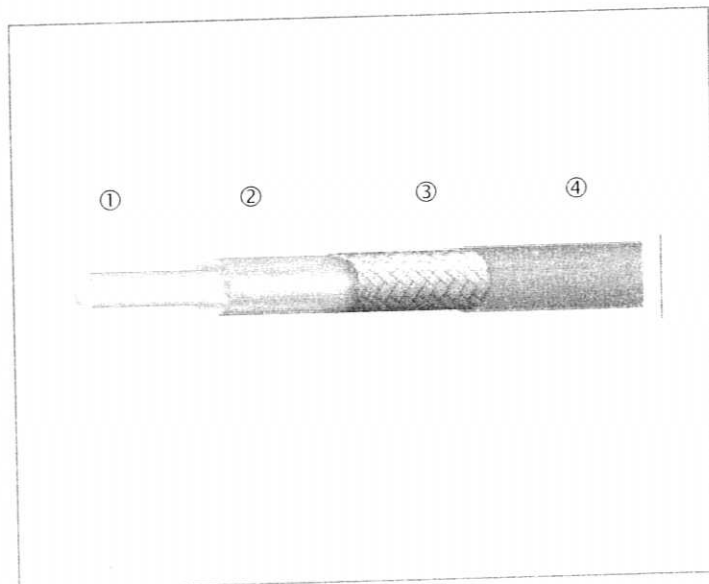
- Operating temperature: - 40 to +85°C
- Continuous working voltage: 1700 volts
- Maximal operating frequency: 1 GHz
- Good resistance to flame NFC 32070/C2 (CEI 332 -1&2)
- Capacitance: <72.2 pF/m
- Relative velocity of propagation: 65.9 %
- Characteristic impedance at 200 MHz: 75 ρ 3 :
- Attenuation 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

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

Application

High frequency connections.



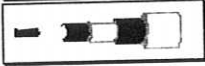
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Issue 1 06/06/2003

ELECTRONIC



Filotex®

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

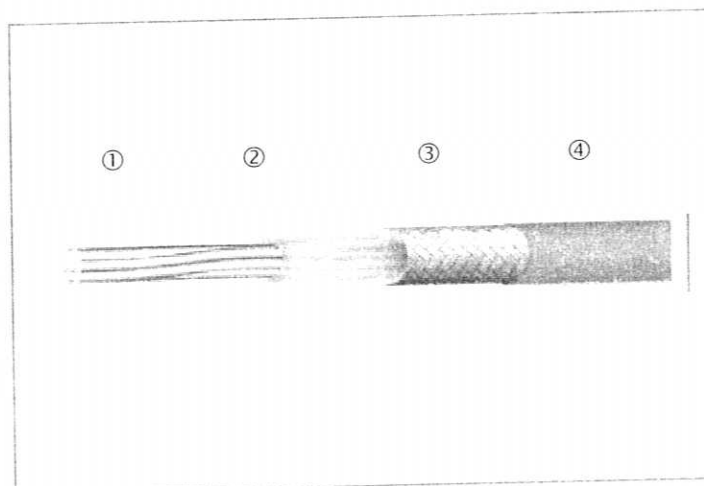
Main characteristics

- 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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Filotex®

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

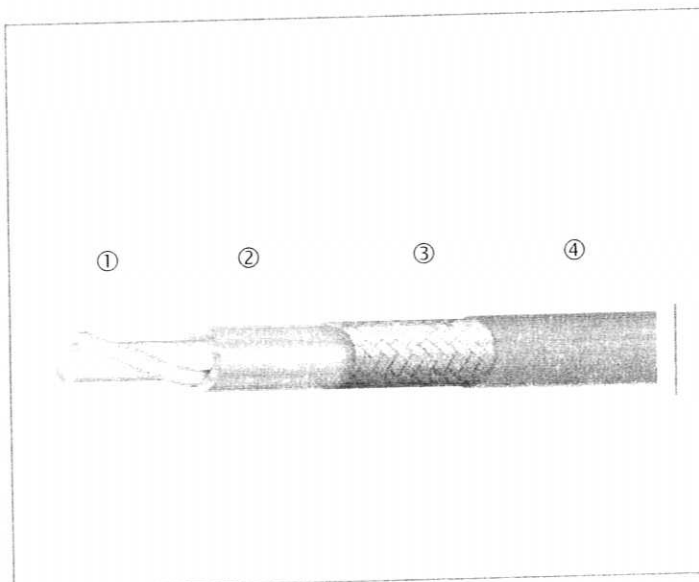
To: MIL C17

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.



ELECTRONIC



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

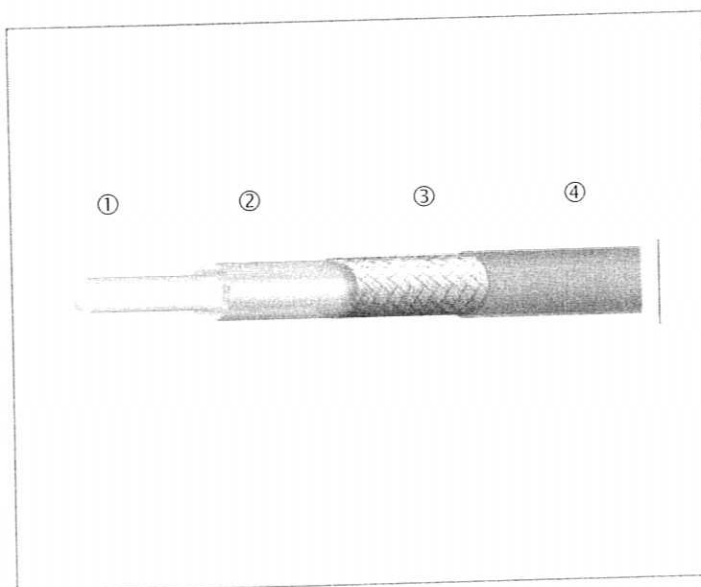
To: MIL C17

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.



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Nexans

Issue 1 06/06/2003

ELECTRONIC



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

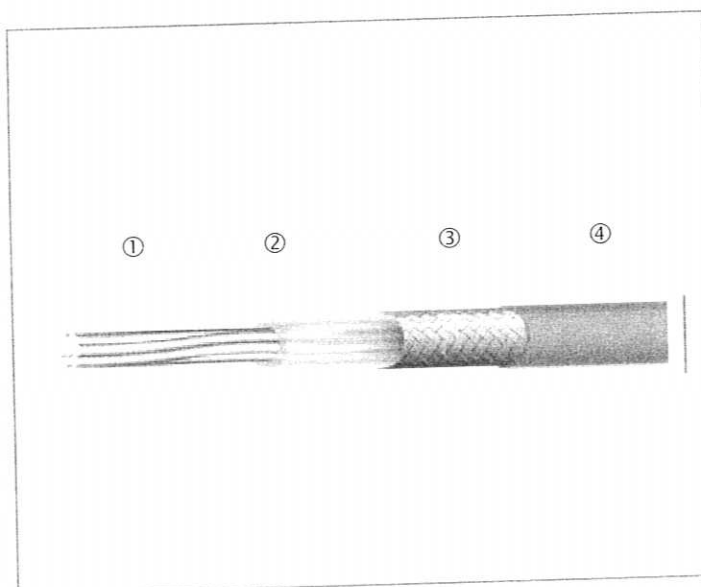
To: NF C93550, MIL C17

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 p 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

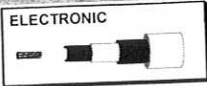
High frequency connections.



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Nexans

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MULTICOAXIAL 26 X URM 43 CABLE 50 Ω

Filotex®

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: ≤ 20.7 dB/100 m
- Test Voltage: 1500 V_{AC} / 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

