



# Filotex<sup>®</sup>

## PRODUCT REFERENCE

FILOTEX Ref : **2PK211**

**FLAMEX Quad 100 Ω**  
**0.50 mm<sup>2</sup>**  
**HALOGEN FREE**  
**According DTREN 150002**

### Main Characteristics

- Approximate weight : 100 g/m
- Operating temperature : -25°C to +85°C
- Jacket material according to EN50264-1 EM 101

### Reaction to fire

#### According NFF 16101 category A1

Test	Requirement	Cable performance
Flame propagation – Single cable	NFC 32070-2-1	Conform
Flame propagation –bunched cables	NFC 32070-2-2 Class C - < 30 cm	Conform
Smoke Index / Toxicity	Class F1 – IF < 20	Class F0

#### According EN 45545-2 for category HL3

Test	Requirement	Cable performance
Flame propagation – Single cable	EN 60332-1-2	Conform
Flame propagation –bunched cables	EN 60332-3-25	Conform
Smoke density	EN 61034-2	Conform
Toxicity / Corrosivity	EN 50267-2-1&2	Conform

## CONSTRUCTION

### ① 4 Cores

Conductor : Tinned Copper  
 (0.50mm<sup>2</sup>/AWG20)  
 Polyolefin insulation

Colour code :  
 White / Blue / Yellow / Orange

### ② Optional Filler

### ③ Tapes

### ④ Shield

Braid of tinned copper  
 Kr ≥ 55 %

### ⑤ Halogen free Jacket

∅ = 8.50 ± 0.30 mm

Colour code : Blue - marking  
 DTREN150002 – 300 V – 4x0,5 mm<sup>2</sup> CS –  
 QUADRAX 100 OHMS – 239 - FILOTEX P –  
 2PK211 \*\* \*\*  
 \*\* \*\* : Week and year of production

Minimum bending radius :

- Static application : 8 x diameter
- Dynamic application : 10 x diameter

### Electrical values

- Operating voltage : 300 Vac Max
- Voltage test : 2000 Vac or 4800 V dc
- Linear resistance : 40.1 Ω/Km nom at 20°C
- Fitted characteristic impedance : Z<sub>c</sub> = 100 Ω ± 5 Ω at 100MHz.
- Characteristic impedance 1MHz to 100 MHz according IEC 61156-6 §6.3.10
- Capacity ≤ 55 pF/m
- Unbalance capacity ≤ 1.6 pF/m
- Propagation velocity : 70 % nom
- Transfert impedance : - Z<sub>t</sub> ≤ 10 mΩ/m from 100 kHz to 30 MHz  
 - Z<sub>t</sub> ≤ 50 mΩ/m from 100 kHz to 100 MHz
- Insulation resistance ≥ 150 MΩ.km at 20°C

Frequency MHz	1	4	10	16	20	31.25	62.5	100
Attenuation max dB/100m	2.1	4.3	6.6	8.2	9.2	11.8	17.1	22.0
NEXT dB	62.3	53.3	47.3	44.2	42.8	39.9	35.4	32.3

