Picocoax®

miniature coaxial cables

www.axon-cable.com

axon' cable & interconnect

Picocoax® miniature coaxial cables

September, 2016

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GENERAL INFORMATION

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Single Picocoax® wires

Miniaturisation and quality of signal transmission are key issues for manufacturers of electronic equipment including measurement equipment and medical devices. In order to meet these challenges, Axon' Cable manufactures a full range of flexible and miniature coaxial cables called Picocoax®.

General information

Picocoax® wires are tiny cables which offer an excellent compromise between a very small diameter (e.g 0.20 mm) and a capacitance of 50 to 100 pF/m.

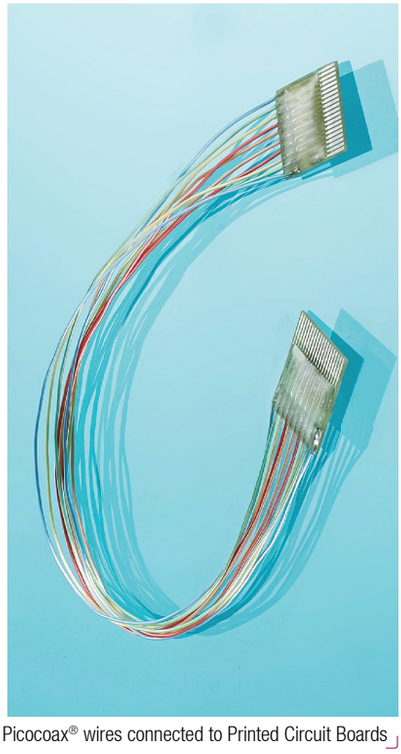
Axon' Cable, the specialist in interconnect solutions, has a long-term expertise in the manufacturing of coaxial cables and harnesses for applications where a large number of signals have to be transmitted with no interference.

High quality materials

Picocoax® miniature coaxial cables are made with Silver Plated Copper Alloy conductor and high performance dielectric materials including FEP or Celloflon® (porous PTFE patented by Axon' Cable). The use of Celloflon® enables the manufacture of lighter, smaller, more flexible coaxial cables with improved electrical characteristics.

From single wires to composite cables

Axon' Cable excels in the design and manufacture of composite cables made to customer specifications. The company is able to design tailor-made cables with different configurations: bundles of 18 to 256 (or more on request) Picocoax® cables (called Multipicocoax®), hybrid cables with Picocoax® wires, twisted pairs, shielded wires, flexible wires, power cables or tubes able to transmit power, signals and fluids (see page 18).



Picocoax® wires connected to Printed Circuit Boards

Applications

Any application which requires signal transmission in a limited space:

- Test equipment,
- Sensors,
- Cameras,
- Medical applications including external or intra-corporeal probes, ultrasound imaging equipment, endoscopy systems, catheter.

Identification code

PCX	40	K	10	A	P

Picocoax® wires

AWG:
36 to 46

Dielectric:
K: FEP
C: Celloflon®
P: Wrapped Polyester
F: PFA

Capacitance/10

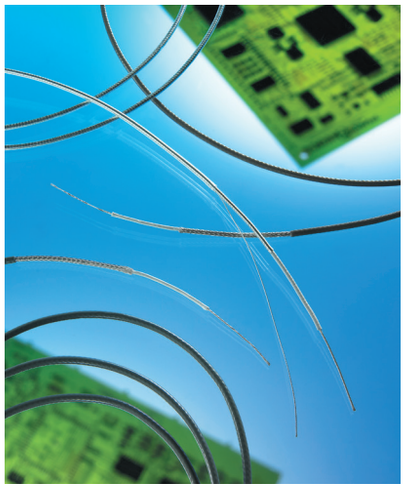
Served shield
A: Silver Plated Copper Alloy
B: Tin Plated Copper
C: Silver Plated Copper
D: Bare Copper
E: Silver Plated Copper Alloy (SHT)

Jacket:
K: FEP
P: Wrapped Polyester
F: PFA

Please contact us to select the most appropriate material.

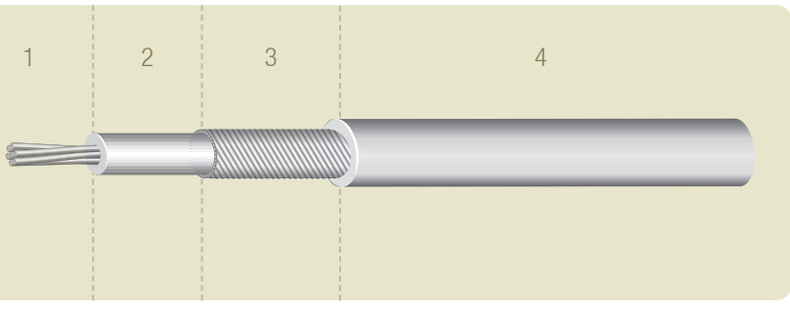
Picocoax® wires: key features

- ✓ Large range of Picocoax® wires: 36 AWG to 46 AWG,
- ✓ From single-piece orders to large volumes,
- ✓ Tailor-made composite cables made with Picocoax® cables, electrical wires or tubes,
- ✓ All-in-one solution: Cable assemblies delivered complete with terminations,
- ✓ High flexibility and resistance,
- ✓ Space saving.



Single Picocoax® wires

TYPE PCX 36 K 08 xx



Construction

PRIMARY WIRE

1 - Inner conductor: Silver Plated Copper Alloy
2 - Dielectric: FEP
3 - Served shield: Silver Plated Copper Alloy or Tin Plated Copper
4 - Jacket: FEP(*) or Wrapped Polyester

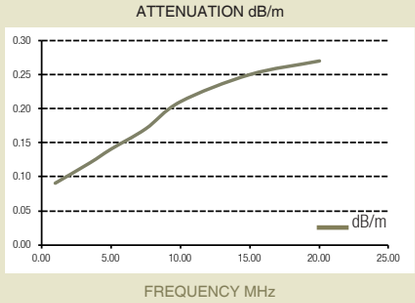
(*) Available colours: black/red/orange/yellow/green/blue/white/purple/brown/transparent.

Dimensions

INNER CONDUCTOR			DIELECTRIC	SERVED SHIELD	JACKET
AWG	COMPOSITION	Ø (mm)	Ø (mm)	Ø (mm)	Ø (mm)
36	7 x 0.051	0.153	0.54	0.60	0.67

Electrical characteristics

- Nominal resistance: 1.99 Ω/m
- Nominal resistance (shield/conductor): 1.80 Ω/m
- Nominal capacitance: 80 pF/m
- Nominal impedance: 60 Ω



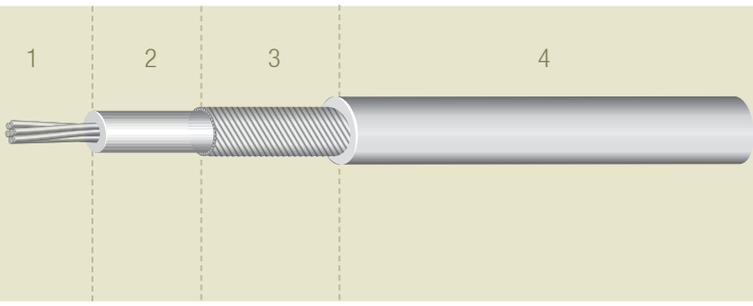
FREQUENCY MHz	1	3.5	5	7.5	10	15	20
ATTENUATION dB/m	0.09	0.12	0.14	0.17	0.21	0.25	0.27

Identification code

PCX	36	K	08	A (B)	K (P)
Picocoax®	**Conductor size:** AWG	**Dielectric:** K: FEP	**Capacitance / 10** Ex: capacitance : 80 (pF/m) / 10 = 08	**Shielding:** A: Silver Plated Copper Alloy B: Tin Plated Copper	**Jacket:** K: FEP P: Wrapped Polyester

Single Picocoax® wires

TYPE PCX 36 K 10 xx



Construction

PRIMARY WIRE

1 - Inner conductor: Silver Plated Copper Alloy
2 - Dielectric: FEP
3 - Served shield: Silver Plated Copper Alloy or Tin Plated Copper
4 - Jacket: FEP(*) or Wrapped Polyester

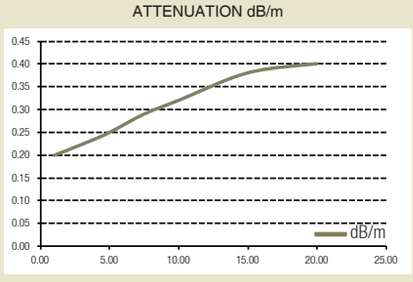
(*) Available colours: black/red/orange/yellow/green/blue/white/purple/brown/transparent.

Dimensions

INNER CONDUCTOR			DIELECTRIC	SERVED SHIELD	JACKET
AWG	COMPOSITION	Ø (mm)	Ø (mm)	Ø (mm)	Ø (mm)
36	7 x 0.051	0.153	0.42	0.52	0.59

Electrical characteristics

- Nominal resistance: 1.99 Ω/m
- Nominal resistance (shield/conductor): 1.85 Ω/m
- Nominal capacitance: 100 pF/m
- Nominal impedance: 50 Ω



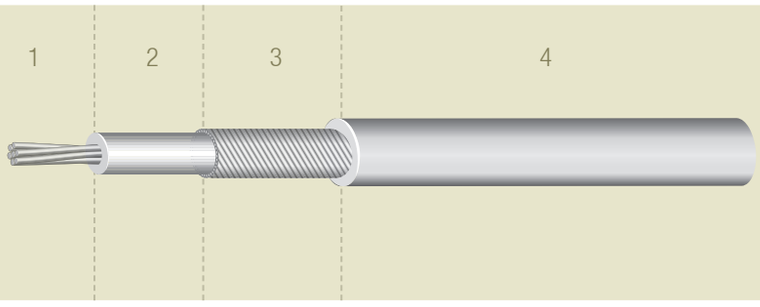
FREQUENCY MHz	1	3.5	5	7.5	10	15	20
ATTENUATION dB/m	0.20	0.23	0.25	0.29	0.32	0.38	0.40

Identification code

PCX	36	K	10	A (B)	K (P)
Picocoax®	**Conductor size:** AWG	**Dielectric:** K: FEP	**Capacitance / 10** Ex: capacitance : 100 (pF/m) / 10 = 10	**Shielding:** A: Silver Plated Copper Alloy B: Tin Plated Copper	**Jacket:** K: FEP P: Wrapped Polyester

Single Picocoax® wires

TYPE PCX 38 C 06 xx



Construction

PRIMARY WIRE

1 - Inner conductor: Silver Plated Copper Alloy
2 - Dielectric: Celloflon®
3 - Served shield: Silver Plated Copper Alloy or Tin Plated Copper
4 - Jacket: FEP(*) or Wrapped Polyester

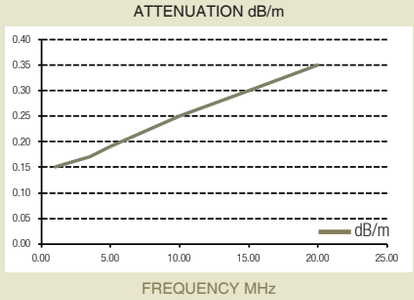
(*) Available colours: black/red/orange/yellow/green/blue/white/purple/brown/transparent.

Dimensions

INNER CONDUCTOR			DIELECTRIC	SERVED SHIELD	JACKET
AWG	COMPOSITION	Ø (mm)	Ø (mm)	Ø (mm)	Ø (mm)
38	7 x 0.04	0.120	0.43	0.49	0.58

Electrical characteristics

- Nominal resistance: 3.11 Ω/m
- Nominal resistance (shield/conductor): 2.95 Ω/m
- Nominal capacitance: 60 pF/m
- Nominal impedance: 70 Ω



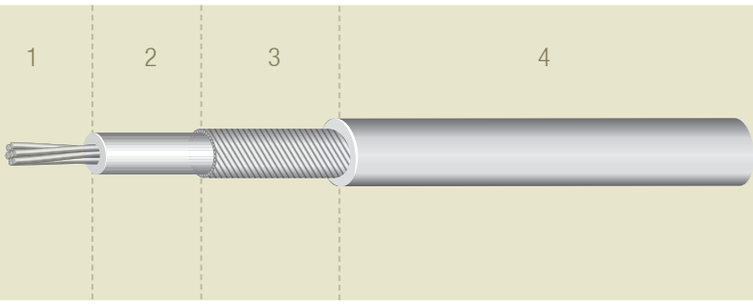
FREQUENCY MHz	1	3.5	5	7.5	10	15	20
ATTENUATION dB/m	0.15	0.17	0.19	0.22	0.25	0.30	0.35

Identification code

PCX	38	C	06	A (B)	K (P)
Picocoax®	**Conductor size:** AWG	**Dielectric:** C: Celloflon®	**Capacitance / 10** Ex: capacitance : 60 (pF/m) / 10 = 06	**Shielding:** A: Silver Plated Copper Alloy B: Tin Plated Copper	**Jacket:** K: FEP P: Wrapped Polyester

Single Picocoax® wires

TYPE PCX 38 K 10 xx



Construction

PRIMARY WIRE

1 - Inner conductor: Silver Plated Copper Alloy
2 - Dielectric: FEP
3 - Served shield: Silver Plated Copper Alloy or Tin Plated Copper
4 - Jacket: FEP(*) or Wrapped Polyester

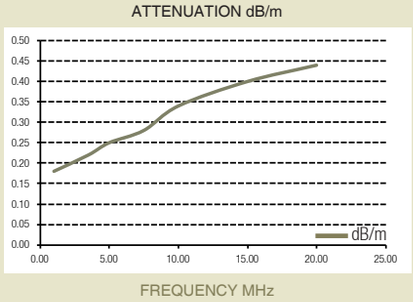
(*) Available colours: black/red/orange/yellow/green/blue/white/purple/brown/transparent.

Dimensions

INNER CONDUCTOR			DIELECTRIC	SERVED SHIELD	JACKET
AWG	COMPOSITION	Ø (mm)	Ø (mm)	Ø (mm)	Ø (mm)
38	7 x 0.04	0.120	0.35	0.45	0.52

Electrical characteristics

- Nominal resistance: 3.11 Ω/m
- Nominal resistance (shield/conductor): 2.75 Ω/m
- Nominal capacitance: 100 pF/m
- Nominal impedance: 50 Ω



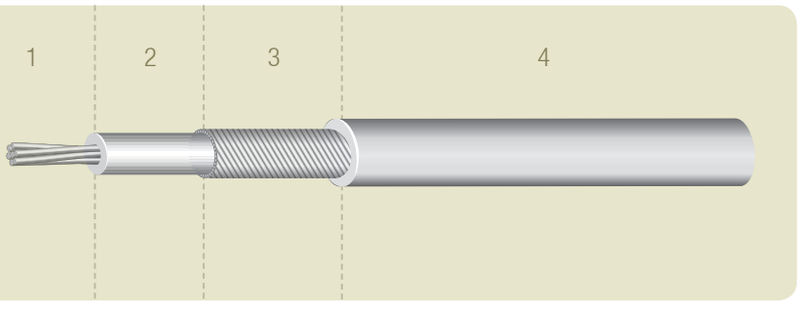
FREQUENCY MHz	1	3.5	5	7.5	10	15	20
ATTENUATION dB/m	0.18	0.22	0.25	0.28	0.34	0.40	0.44

Identification code

PCX	38	K	10	A (B)	K (P)
Picocoax®	**Conductor size:** AWG	**Dielectric:** K: FEP	**Capacitance / 10** Ex: capacitance : 100 (pF/m) / 10 = 10	**Shielding:** A: Silver Plated Copper Alloy B: Tin Plated Copper	**Jacket:** K: FEP P: Wrapped Polyester

Single Picocoax® wires

TYPE PCX 40 C 05 xx



Construction

PRIMARY WIRE

1 - Inner conductor: Silver Plated Copper Alloy
2 - Dielectric: Celloflon®
3 - Served shield: Silver Plated Copper Alloy
4 - Jacket: FEP(*) or Wrapped Polyester

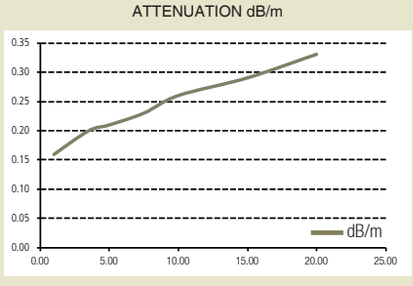
(*) Available colours: black/red/orange/yellow/green/blue/white/purple/brown/transparent.

Dimensions

INNER CONDUCTOR			DIELECTRIC	SERVED SHIELD	JACKET
AWG	COMPOSITION	Ø (mm)	Ø (mm)	Ø (mm)	Ø (mm)
40	7 x 0.031	0.093	0.39	0.45	0.55

Electrical characteristics

- Nominal resistance: 5.53 Ω/m
- Nominal resistance (shield/conductor): 4.42 Ω/m
- Nominal capacitance: 50 pF/m
- Nominal impedance: 80 Ω



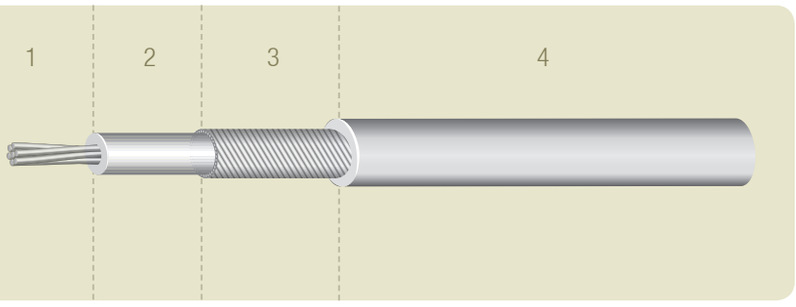
FREQUENCY MHz	1	3.5	5	7.5	10	15	20
ATTENUATION dB/m	0.16	0.20	0.21	0.23	0.26	0.29	0.33

Identification code

PCX	40	C	05	A	K (P)
Picocoax®	**Conductor size:** AWG	**Dielectric:** C: Celloflon®	**Capacitance / 10** Ex: capacitance: 50 (pF/m) / 10 = 05	**Shielding:** A: Silver Plated Copper Alloy	**Jacket:** K: FEP P: Wrapped Polyester

Single Picocoax® wires

TYPE PCX 40 K 08 xx



Construction

PRIMARY WIRE

1 - Inner conductor: Silver Plated Copper Alloy
2 - Dielectric: FEP
3 - Served shield: Silver Plated Copper Alloy
4 - Jacket: FEP(*) or Wrapped Polyester

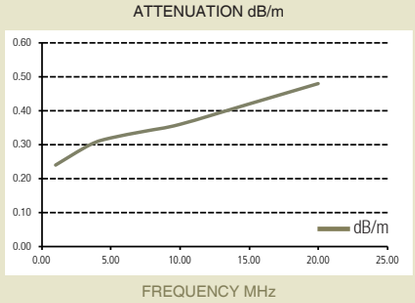
(*) Available colours: black/red/orange/yellow/green/blue/white/purple/brown/transparent.

Dimensions

INNER CONDUCTOR			DIELECTRIC	SERVED SHIELD	JACKET
AWG	COMPOSITION	Ø (mm)	Ø (mm)	Ø (mm)	Ø (mm)
40	7 x 0.031	0.093	0.33	0.39	0.46

Electrical characteristics

- Nominal resistance: 5.53 Ω/m
- Nominal resistance (shield/conductor): 4.14 Ω/m
- Nominal capacitance: 80 pF/m
- Nominal impedance: 60 Ω



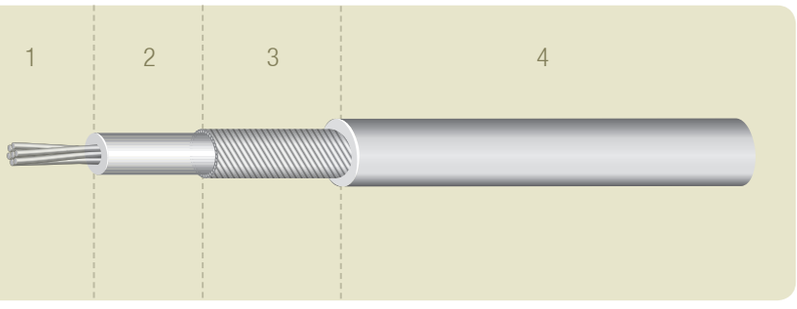
FREQUENCY MHz	1	3.5	5	7.5	10	15	20
ATTENUATION dB/m	0.24	0.30	0.32	0.34	0.36	0.42	0.48

Identification code

PCX	40	K	08	A	K (P)
Picocoax®	**Conductor size:** AWG	**Dielectric:** K: FEP	**Capacitance / 10** Ex: capacitance : 80 (pF/m) / 10 = 08	**Shielding:** A: Silver Plated Copper Alloy	**Jacket:** K: FEP P: Wrapped Polyester

Single Picocoax® wires

TYPE PCX 40 K 10 xx



Construction

PRIMARY WIRE

1 - Inner conductor: Silver Plated Copper Alloy
2 - Dielectric: FEP
3 - Served shield: Silver Plated Copper Alloy
4 - Jacket: FEP(*) or Wrapped Polyester

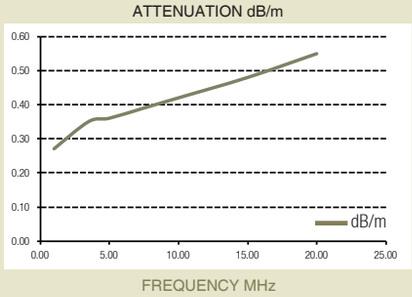
(*) Available colours: black/red/orange/yellow/green/blue/white/purple/brown/transparent.

Dimensions

INNER CONDUCTOR			DIELECTRIC	SERVED SHIELD	JACKET
AWG	COMPOSITION	Ø (mm)	Ø (mm)	Ø (mm)	Ø (mm)
40	7 x 0.031	0.093	0.25	0.31	0.38

Electrical characteristics

- Nominal resistance: 5.53 Ω/m
- Nominal resistance (shield/conductor): 4.75 Ω/m
- Nominal capacitance: 100 pF/m
- Nominal impedance: 50 Ω



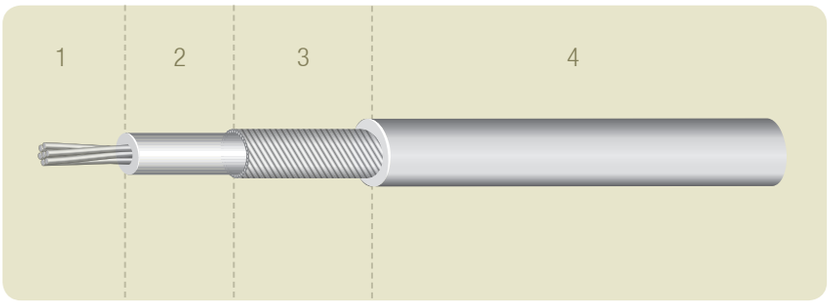
FREQUENCY MHz	1	3.5	5	7.5	10	15	20
ATTENUATION dB/m	0.27	0.35	0.36	0.39	0.42	0.48	0.55

Identification code

PCX	40	K	10	A	K (P)
Picocoax®	**Conductor size:** AWG	**Dielectric:** K: FEP	**Capacitance / 10** Ex: capacitance : 100 (pF/m) / 10 = 10	**Shielding:** A: Silver Plated Copper Alloy	**Jacket:** K: FEP P: Wrapped Polyester

Single Picocoax® wires

TYPE PCX 42 C 05 xx



Construction

PRIMARY WIRE

1 - Inner conductor: Silver Plated Copper Alloy
2 - Dielectric: Celloflon®
3 - Served shield: Silver Plated Copper Alloy
4 - Jacket: FEP(*) or Wrapped Polyester

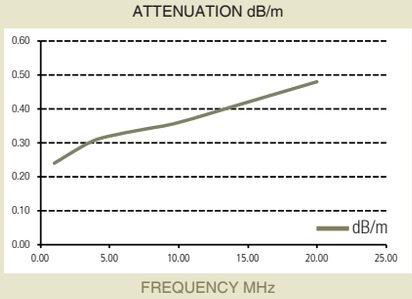
(*) Available colours: black/red/orange/yellow/green/blue/white/purple/brown/transparent.

Dimensions

INNER CONDUCTOR			DIELECTRIC	SERVED SHIELD	JACKET
AWG	COMPOSITION	Ø (mm)	Ø (mm)	Ø (mm)	Ø (mm)
42	7 x 0.025	0.075	0.30	0.35	0.42

Electrical characteristics

- Nominal resistance: 7.97 Ω/m
- Nominal resistance (shield/conductor): 6.81 Ω/m
- Nominal capacitance: 50 pF/m
- Nominal impedance: 80 Ω



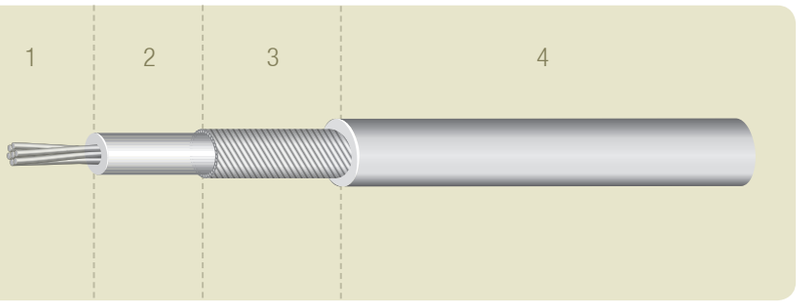
FREQUENCY MHz	1	3.5	5	7.5	10	15	20
ATTENUATION dB/m	0.26	0.35	0.37	0.40	0.42	0.46	0.52

Identification code

PCX	42	C	05	A	K (P)
Picocoax®	**Conductor size:** AWG	**Dielectric:** **C:** Celloflon®	**Capacitance / 10** Ex: capacitance: 50 (pF/m) / 10 = 05	**Shielding:** A: Silver Plated Copper Alloy	**Jacket:** K: FEP P: Wrapped Polyester

Single Picocoax® wires

TYPE PCX 42 K 10 xx



Construction

PRIMARY WIRE

1 - Inner conductor: Silver Plated Copper Alloy
2 - Dielectric: FEP
3 - Served shield: Silver Plated Copper Alloy
4 - Jacket: FEP(*) or Wrapped Polyester

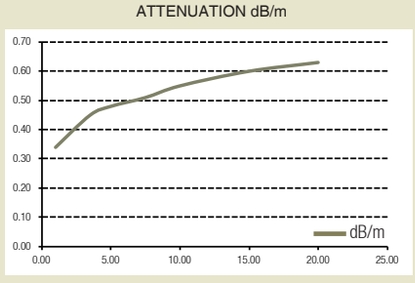
(*) Available colours: black/red/orange/yellow/green/blue/white/purple/brown/transparent.

Dimensions

INNER CONDUCTOR			DIELECTRIC	SERVED SHIELD	JACKET
AWG	COMPOSITION	Ø (mm)	Ø (mm)	Ø (mm)	Ø (mm)
42	7 x 0.025	0.075	0.20	0.26	0.33

Electrical characteristics

- Nominal resistance: 7.97 Ω/m
- Nominal resistance (shield/conductor): 7.07 Ω/m
- Nominal capacitance: 100 pF/m
- Nominal impedance: 50 Ω



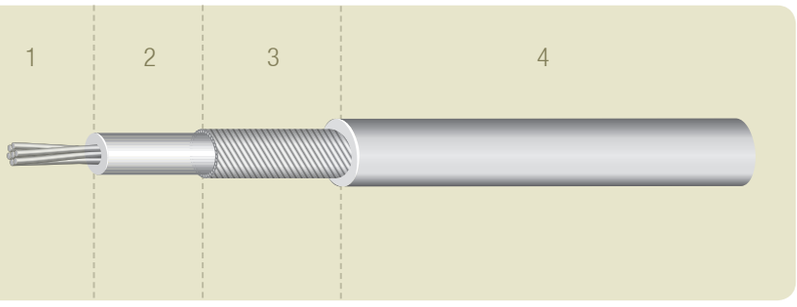
FREQUENCY MHz	1	3.5	5	7.5	10	15	20
ATTENUATION dB/m	0.34	0.45	0.48	0.51	0.55	0.60	0.63

Identification code

PCX	42	K	10	A	K (P)
Picocoax®	**Conductor size:** AWG	**Dielectric:** K: FEP	**Capacitance / 10** Ex: capacitance: 100 (pF/m) / 10 = 10	**Shielding:** A: Silver Plated Copper Alloy	**Jacket:** K: FEP P: Wrapped Polyester

Single Picocoax® wires

TYPE PCX 44 C 04 xx



Construction

PRIMARY WIRE

1 - Inner conductor: Silver Plated Copper Alloy
2 - Dielectric: Celloflon®
3 - Served shield: Silver Plated Copper Alloy
4 - Jacket: FEP(*) or Wrapped Polyester

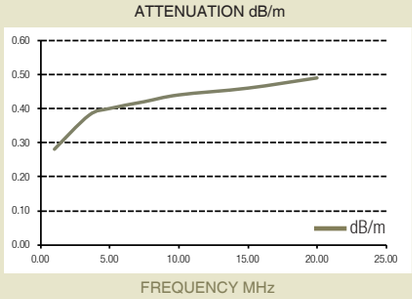
(*) Available colours: black/red/orange/yellow/green/blue/white/purple/brown/transparent.

Dimensions

INNER CONDUCTOR			DIELECTRIC	SERVED SHIELD	JACKET
AWG	COMPOSITION	Ø (mm)	Ø (mm)	Ø (mm)	Ø (mm)
44	7 x 0.020	0.060	0.34	0.39	0.46

Electrical characteristics

- Nominal resistance: 13.00 Ω/m
- Nominal resistance (shield/conductor): 14.10 Ω/m
- Nominal capacitance: 40 pF/m
- Nominal impedance: 95 Ω



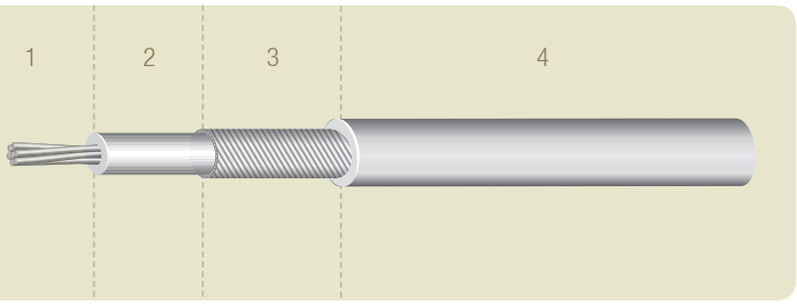
FREQUENCY MHz	1	3.5	5	7.5	10	15	20
ATTENUATION dB/m	0.28	0.38	0.40	0.42	0.44	0.46	0.49

Identification code

PCX	44	C	04	A	K (P)
Picocoax®	**Conductor size:** AWG	**Dielectric:** C: Celloflon®	**Capacitance / 10** Ex: capacitance: 40 (pF/m) / 10 = 04	**Shielding:** A: Silver Plated Copper Alloy	**Jacket:** K: FEP P: Wrapped Polyester

Single Picocoax® wires

TYPE PCX 44 K 11 xx



Construction

PRIMARY WIRE

1 - Inner conductor: Silver Plated Copper Alloy
2 - Dielectric: FEP
3 - Served shield: Silver Plated Copper Alloy
4 - Jacket: FEP(*) or Wrapped Polyester

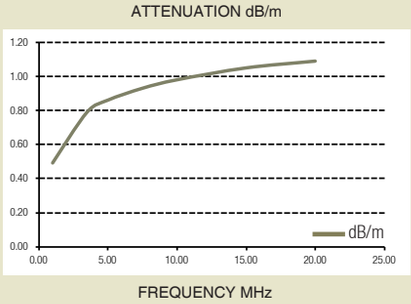
((*) Available colours: black/red/orange/yellow/green/blue/white/purple/brown/transparent.

Dimensions

INNER CONDUCTOR			DIELECTRIC	SERVED SHIELD	JACKET
AWG	COMPOSITION	Ø (mm)	Ø (mm)	Ø (mm)	Ø (mm)
44	7 x 0.020	0.060	0.14	0.19	0.26

Electrical characteristics

- Nominal resistance: 13.00 Ω/m
- Nominal resistance (shield/conductor): 14.50 Ω/m
- Nominal capacitance: 110 pF/m
- Nominal impedance: 50 Ω



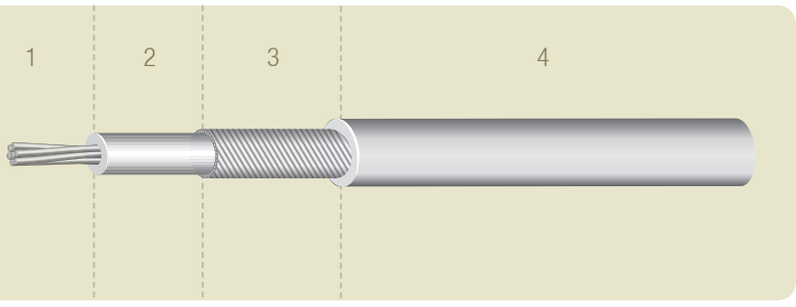
FREQUENCY MHz	1	3.5	5	7.5	10	15	20
ATTENUATION dB/m	0.49	0.79	0.86	0.93	0.98	1.05	1.09

Identification code

PCX	44	K	11	A	K (P)
Picocoax®	**Conductor size:** AWG	**Dielectric:** K: FEP	**Capacitance / 10** Ex: capacitance: 110 (pF/m) / 10 = 11	**Shielding:** A: Silver Plated Copper Alloy	**Jacket:** K: FEP P: Wrapped Polyester

Single Picocoax® wires

TYPE PCX 46 K 10 xx



Construction

PRIMARY WIRE

1 - Inner conductor: Silver Plated Copper Alloy
2 - Dielectric: FEP
3 - Served shield: Silver Plated Copper Alloy
4 - Jacket: FEP(*) or Wrapped Polyester

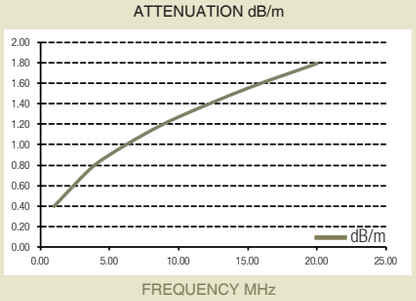
(*) Available colours: black/red/orange/yellow/green/blue/white/purple/brown/transparent.

Dimensions

INNER CONDUCTOR			DIELECTRIC	SERVED SHIELD	JACKET
AWG	COMPOSITION	Ø (mm)	Ø (mm)	Ø (mm)	Ø (mm)
46	7 x 0.015	0.045	0.12	0.16	0.25

Electrical characteristics

- Nominal resistance: 22.30 Ω/m
- Nominal resistance (shield/conductor): 25.00 Ω/m
- Nominal capacitance: 100 pF/m
- Nominal impedance: 50 Ω



FREQUENCY MHz	1	3.5	5	7.5	10	15	20
ATTENUATION dB/m	0.40	0.75	0.90	1.10	1.27	1.55	1.79

Identification code

PCX	46	K	10	A	K (P)
Picocoax®	**Conductor size:** AWG	**Dielectric:** K: FEP	**Capacitance / 10** Ex: capacitance: 100 (pF/m) / 10 = 10	**Shielding:** A: Silver Plated Copper Alloy	**Jacket:** K: FEP P: Wrapped Polyester

Multipicocoax® cables

Multipicocoax® cables are composite cables made with bundles of 18 to 256 (or more on request) Picocoax® cables.

Axon' Cable is also able to manufacture hybrid cables with Picocoax® wires, twisted pairs, shielded wires, flexible wires, power cables or tubes able to transmit power, signals and fluids.

Flexibility and resistance

Whether for applications where the available routing space is limited or for medical applications where cables have to withstand handling from the medical staff and patients, flexibility of the cable is paramount.
Axon' Multipicocoax cables are characterized by their high flexibility and a very small bend radius (3.5 x diameter).

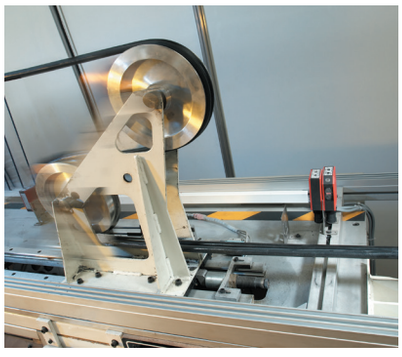
The construction and the materials of the Multipicocoax® composite cables have been optimized to cope with these requirements. Chemical resistance of the jacket is also a key issue for medical devices. Axon' Cable has selected PVC or silicone jackets tested according to ISO 10993 to offer the most appropriate solution. The company has developed a wide variety of specialized capabilities to ensure the interconnect solutions offered stand up to the most challenging environments.

Production: from prototypes to large volumes

With manufacturing and technical design teams based in both France and Latvia, Axon' Cable is able to deliver both large and small volume orders. To guarantee high product reliability and a continuous quality process, Axon' Cable uses the most up-to-date equipment:

- automatic and laser stripping machines,
- precision positioning tools,
- automatic test benches,
- 3D printers.

Axon' Cable is able to offer shielded terminations suitable for medical electronics. Shield performance can be verified by in-house testing of surface transfer impedance.



Bending test

Test capabilities

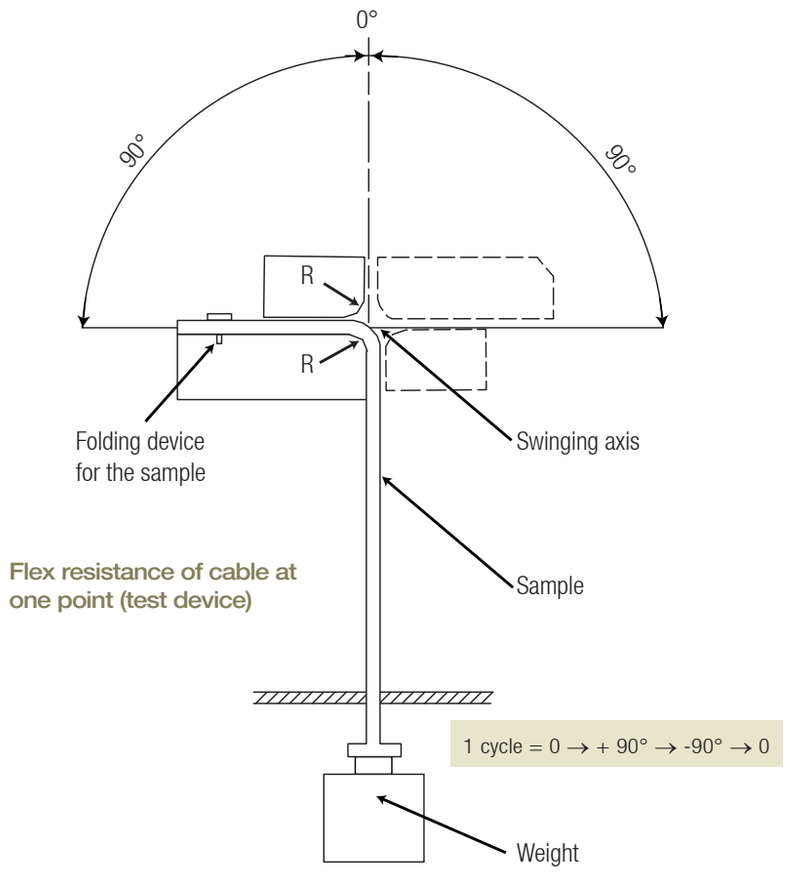
Axon' Cable uses a wide variety of in-house equipment to ensure our interconnect solutions stand up to the most challenging of environments including mechanical tests:

- resistance to shock,
- combined flex/torsion,
- folding,
- winding, unwinding,
- vibration equipment,
- tensile strength.

All Axon' Multipicocoax® cable assemblies are 100% electrically tested.

Mechanical characteristics

Flexlife: minimum 250 000 cycles according to VDE 0472, MIL-C-24643, SEFT 027.
High flexibility: bend radius: 3.5 x cable diameter.



Picocoax® cable - Multipicocoax® cable assembly

Chemical characteristics of the outer jacket

PVC:

- CIDEX®, KORSOLEX®, resistant,
- meets the requirements of the norm ISO 10993 Chapters 5, 10(*).

SILICONE:

- CIDEX®, KORSOLEX®, resistant,
- withstands autoclave, ETO®, STERRAD®, STERIS® sterilization, meets the requirements of the ISO 10993 - Chapters 5, 10(*).

- *(*) only specific colours have been tested. Test reports available on request.*

Interconnection systems

Axon' Cable is able to fully integrate the system with its own parts or with accessories supplied by the customer. In addition to its expertise in interconnect solutions with different types of connectors (such as ZIF/LIF, Micro-D, Nano-D, D-Sub, or others), Axon' Cable can offer a full range of welded printed circuits:

Welding with PCB

Axon' Cable engineers have the expertise to design basic PCBs and will make dimensional recommendations for the design of complex printed circuits. They will propose the very solution to optimize the weld zone of the PCB where the Picocoax® wires have to be soldered. 100 % of electrical testing will be carried out by Axon' Cable.

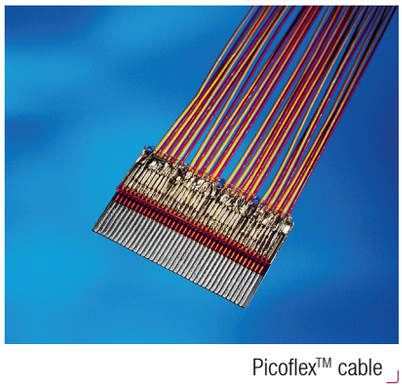
Welding with PCB

Picoflex™ cable

- The Picocoax® cables are welded onto a flexible printed circuit (FPC).
- The FPC is mounted in a ZIF connector which is surface mounted onto a PCB.
- Compatible with industry standard ZIF connectors.
- Available in 0.50 mm and 0.30 mm.
- Compatible with Picocoax® wires 38 AWG to 46 AWG (50 and 100 pF/m).

Multipicocoax® Cables: key features

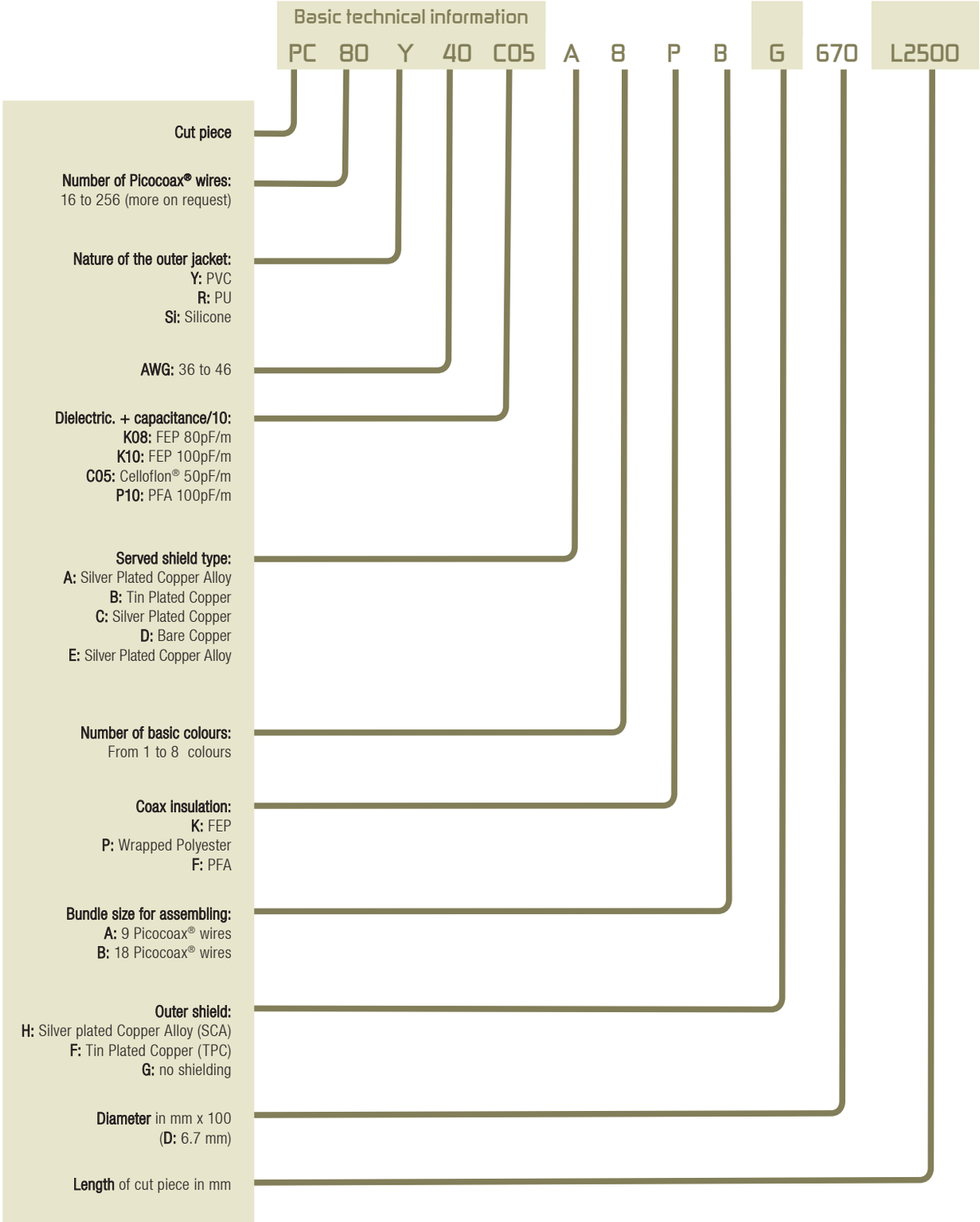
- ✓ Many possible configurations : bundles of 18 to 256 (or more) Picocoax® wires,
- ✓ Large range of Picocoax® wires: 36 AWG to 46 AWG,
- ✓ From single-piece orders to large volumes,
- ✓ Tailor-made composite cables made with Picocoax® cables, electrical wires or tubes,
- ✓ All-in-one solution: cable assemblies delivered with termination,
- ✓ High flexibility and resistance,
- ✓ Space saving.



Picoflex™ cable

Identification code

The highlighted data correspond to basic technical information to be provided to Axon' Cable.

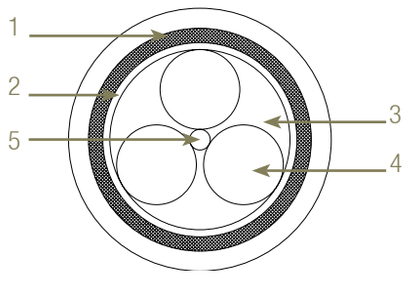


Multipicocoax® cables

TYPE PC 48 Y

Construction

1 - Outer jacket
2 - Braided shield
3 - Separating tape
4 - 3 bundles of 18 Picocoax® wires
5 - Tensile strength fibre



Dimensions

AXON' REFERENCE	SINGLE PICOCOAX® WIRE (1)		NO. OF 18 PICOCOAX® BUNDLES ASSEMBLED WITH COLOURED FIBRE	NO. OF PICOCOAX® WIRES (2) (for 48 coaxials to be connected)		OVERALL Ø (mm) (3)
	AWG	OUTER Ø (mm)		MIN. OF CONNECTABLE COAXIALS (A)	REAL NO. OF COAXIALS (B)	
PC 48 Y 36 K 08	36	0.67	3	51	54	8.90
PC 48 Y 36 K 10	36	0.59	3	51	54	7.80
PC 48 Y 38 C 06	38	0.58	3	51	54	7.80
PC 48 Y 38 K 10	38	0.52	3	51	54	7.10
PC 48 Y 40 C 05	40	0.55	3	51	54	6.80
PC 48 Y 40 K 08	40	0.46	3	51	54	6.80
PC 48 Y 40 K 10	40	0.38	3	51	54	5.35
PC 48 Y 42 C 05	42	0.42	3	51	54	5.35
PC 48 Y 42 K 10	42	0.33	3	51	54	4.85
PC 48 Y 44 C 04	44	0.46	3	51	54	5.75
PC 48 Y 44 K 11	44	0.26	3	51	54	4.15
PC 48 Y 46 K 10	46	0.25	3	51	54	3.80

1) To know the detailed characteristics of the single Picocoax® wire, please ask for the corresponding technical data sheet.
2) Axon' Cable assembles a number (B) of Picocoax® wires, of which a guaranteed number (A) of Picocoax® wires are connectable. Those which cannot be used are marked for easier termination.
3) The diameter can be changed, please contact us.

Electrical characteristics

AXON' REFERENCE	NOM. CAPACITANCE (pF/m)	NOM. IMPEDANCE (Ω)
PC 48 Y 36 K 08	80	60
PC 48 Y 36 K 10	100	50
PC 48 Y 38 C 06	60	70
PC 48 Y 38 K 10	100	50
PC 48 Y 40 C 05	50	80
PC 48 Y 40 K 08	80	60

AXON' REFERENCE	NOM. CAPACITANCE (pF/m)	NOM. IMPEDANCE (Ω)
PC 48 Y 40 K 10	100	50
PC 48 Y 42 C 05	50	80
PC 48 Y 42 K 10	100	50
PC 48 Y 44 C 04	40	95
PC 48 Y 44 K 11	110	50
PC 48 Y 46 K 10	100	50

Identification code

The hereafter data are required to define your product. See page 21 for complete identification code.

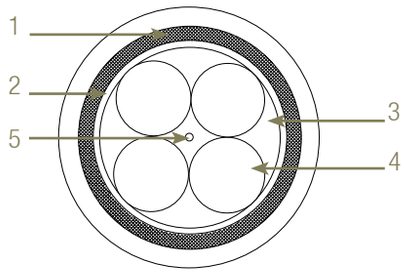
PC	48	Y	40	K	10
Cut Piece (length to be determined when ordering)	**No. of Picocoax® wires**	**Outer jacket** Y: PVC	**Conductor size** AWG	**Dielectric** of the single Picocoax® wire - K: FEP C: Celloflon®	**Capacitance / 10** Ex : 100pF / 10 = 10

Multipicocoax® cables

TYPE PC 64 Y

Construction

1 - Outer jacket
2 - Braided shield
3 - Separating tape
4 - 4 bundles of 18 Picocoax® wires
5 - Tensile strength fibre



Dimensions

AXON' REFERENCE	SINGLE PICOCOAX® WIRE (1)		NO. OF 18 PICOCOAX® BUNDLES ASSEMBLED WITH COLOURED FIBRE	NO. OF PICOCOAX® WIRES (2) (for 48 coaxials to be connected)		OVERALL Ø (mm) (3)
	AWG	OUTER Ø (mm)		MIN. OF CONNECTABLE COAXIALS (A)	REAL NO. OF COAXIALS (B)	
PC 64 Y 36 K 08	36	0.67	4	68	72	10.00
PC 64 Y 36 K 10	36	0.59	4	68	72	8.60
PC 64 Y 38 C 06	38	0.58	4	68	72	8.00
PC 64 Y 38 K 10	38	0.52	4	68	72	7.80
PC 64 Y 40 C 05	40	0.55	4	68	72	7.50
PC 64 Y 40 K 08	40	0.46	4	68	72	7.60
PC 64 Y 40 K 10	40	0.38	4	68	72	5.85
PC 64 Y 42 C 05	42	0.42	4	68	72	5.90
PC 64 Y 42 K 10	42	0.33	4	68	72	5.30
PC 64 Y 44 C 04	44	0.46	4	68	72	6.80
PC 64 Y 44 K 11	44	0.26	4	68	72	4.55
PC 64 Y 46 K 10	46	0.25	4	68	72	4.10

1) To know the detailed characteristics of the single Picocoax® wire, please ask for the corresponding technical data sheet.
2) Axon' Cable assembles a number (B) of Picocoax® wires, of which a guaranteed number (A) of Picocoax® wires are connectable. Those which cannot be used are marked for easier termination.
3) The diameter can be changed, please contact us.

Electrical characteristics

AXON' REFERENCE	NOM. CAPACITANCE (pF/m)	NOM. IMPEDANCE (Ω)
PC 64 Y 36 K 08	80	60
PC 64 Y 36 K 10	100	50
PC 64 Y 38 C 06	60	70
PC 64 Y 38 K 10	100	50
PC 64 Y 40 C 05	50	80
PC 64 Y 40 K 08	80	60

AXON' REFERENCE	NOM. CAPACITANCE (pF/m)	NOM. IMPEDANCE (Ω)
PC 64 Y 40 K 10	100	50
PC 64 Y 42 C 05	50	80
PC 64 Y 42 K 10	100	50
PC 64 Y 44 C 04	40	95
PC 64 Y 44 K 11	110	50
PC 64 Y 46 K 10	100	50

Identification code

The hereafter data are required to define your product. See page 21 for complete identification code.

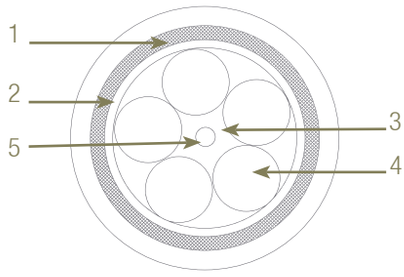
PC	64	Y	40	K	10
Cut Piece (length to be determined when ordering)	**No. of Picocoax® wires**	**Outer jacket** Y: PVC	**Conductor size** AWG	**Dielectric** of the single Picocoax® wire - K: FEP C: Celloflon®	**Capacitance / 10** Ex : 100pF / 10 = 10

Multipicocoax® cables

TYPE PC 80 Y

Construction

1 - Outer jacket
2 - Braided shield
3 - Separating tape
4 - 5 bundles of 18 Picocoax® wires
5 - Tensile strength fibre



Dimensions

AXON' REFERENCE	SINGLE PICOCOAX® WIRE (1)		NO. OF 18 PICOCOAX® BUNDLES ASSEMBLED WITH COLOURED FIBRE	NO. OF PICOCOAX® WIRES (2) (for 48 coaxials to be connected)		OVERALL Ø (mm) (3)
	AWG	OUTER Ø (mm)		MIN. OF CONNECTABLE COAXIALS (A)	REAL NO. OF COAXIALS (B)	
PC 80 Y 36 K 08	36	0.67	5	85	90	10.70
PC 80 Y 36 K 10	36	0.59	5	85	90	9.20
PC 80 Y 38 C 06	38	0.58	5	85	90	8.50
PC 80 Y 38 K 10	38	0.52	5	85	90	8.35
PC 80 Y 40 C 05	40	0.55	5	85	90	8.00
PC 80 Y 40 K 08	40	0.46	5	85	90	8.15
PC 80 Y 40 K 10	40	0.38	5	85	90	6.60
PC 80 Y 42 C 05	42	0.42	5	85	90	6.70
PC 80 Y 42 K 10	42	0.33	5	85	90	5.65
PC 80 Y 44 C 04	44	0.46	5	85	90	7.20
PC 80 Y 44 K 11	44	0.26	5	85	90	4.80
PC 80 Y 46 K 10	46	0.25	5	85	90	4.30

1) To know the detailed characteristics of the single Picocoax® wire, please ask for the corresponding technical data sheet.
2) Axon' Cable assembles a number (B) of Picocoax® wires, of which a guaranteed number (A) of Picocoax® wires are connectable. Those which cannot be used are marked for easier termination.
3) The diameter can be changed, please contact us.

Electrical characteristics

AXON' REFERENCE	NOM. CAPACITANCE (pF/m)	NOM. IMPEDANCE (Ω)
PC 80 Y 36 K 08	80	60
PC 80 Y 36 K 10	100	50
PC 80 Y 38 C 06	60	70
PC 80 Y 38 K 10	100	50
PC 80 Y 40 C 05	50	80
PC 80 Y 40 K 08	80	60

AXON' REFERENCE	NOM. CAPACITANCE (pF/m)	NOM. IMPEDANCE (Ω)
PC 80 Y 40 K 10	100	50
PC 80 Y 42 C 05	50	80
PC 80 Y 42 K 10	100	50
PC 80 Y 44 C 04	40	95
PC 80 Y 44 K 11	110	50
PC 80 Y 46 K 10	100	50

Identification code

The hereafter data are required to define your product. See page 21 for complete identification code.

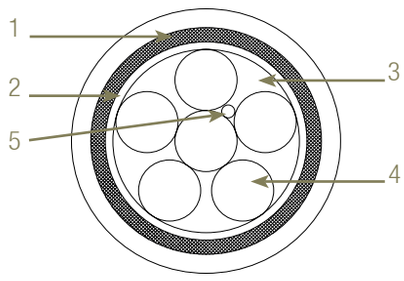
PC	80	Y	40	K	10
Cut Piece (length to be determined when ordering)	**No. of Picocoax® wires**	**Outer jacket** Y: PVC	**Conductor size** AWG	**Dielectric** of the single Picocoax® wire - K: FEP C: Celloflon®	**Capacitance / 10** Ex : 100pF / 10 = 10

Multipicocoax® cables

TYPE PC 96 Y

Construction

1 - Outer jacket
2 - Braided shield
3 - Separating tape
4 - 6 bundles of 18 Picocoax® wires
5 - Tensile strength fibre



Dimensions

AXON' REFERENCE	SINGLE PICOCOAX® WIRE (1)		NO. OF 18 PICOCOAX® BUNDLES ASSEMBLED WITH COLOURED FIBRE	NO. OF PICOCOAX® WIRES (2) (for 48 coaxials to be connected)		OVERALL Ø (mm) (3)
	AWG	OUTER Ø (mm)		MIN. OF CONNECTABLE COAXIALS (A)	REAL NO. OF COAXIALS (B)	
PC 96 Y 36 K 08	36	0.67	6	101	108	12.70
PC 96 Y 36 K 10	36	0.59	6	101	108	10.70
PC 96 Y 38 C 06	38	0.58	6	101	108	9.75
PC 96 Y 38 K 10	38	0.52	6	101	108	9.60
PC 96 Y 40 C 05	40	0.55	6	101	108	9.15
PC 96 Y 40 K 08	40	0.46	6	101	108	9.30
PC 96 Y 40 K 10	40	0.38	6	101	108	7.60
PC 96 Y 42 C 05	42	0.42	6	101	108	7.65
PC 96 Y 42 K 10	42	0.33	6	101	108	6.80
PC 96 Y 44 C 04	44	0.46	6	101	108	8.20
PC 96 Y 44 K 11	44	0.26	6	101	108	5.40
PC 96 Y 46 K 10	46	0.25	6	101	108	4.85

1) To know the detailed characteristics of the single Picocoax® wire, please ask for the corresponding technical data sheet.
2) Axon' Cable assembles a number (B) of Picocoax® wires, of which a guaranteed number (A) of Picocoax® wires are connectable. Those which cannot be used are marked for easier termination.
3) The diameter can be changed, please contact us.

Electrical characteristics

AXON' REFERENCE	NOM. CAPACITANCE (pF/m)	NOM. IMPEDANCE (Ω)
PC 96 Y 36 K 08	80	60
PC 96 Y 36 K 10	100	50
PC 96 Y 38 C 06	60	70
PC 96 Y 38 K 10	100	50
PC 96 Y 40 C 05	50	80
PC 96 Y 40 K 08	80	60

AXON' REFERENCE	NOM. CAPACITANCE (pF/m)	NOM. IMPEDANCE (Ω)
PC 96 Y 40 K 10	100	50
PC 96 Y 42 C 05	50	80
PC 96 Y 42 K 10	100	50
PC 96 Y 44 C 04	40	95
PC 96 Y 44 K 11	110	50
PC 96 Y 46 K 10	100	50

Identification code

The hereafter data are required to define your product. See page 21 for complete identification code.

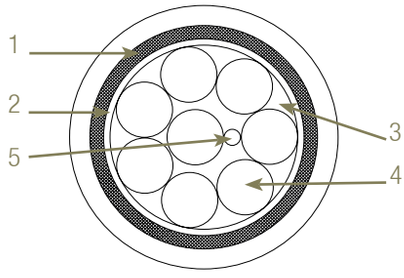
PC	96	Y	40	K	10
Cut Piece (length to be determined when ordering)	**No. of Picocoax® wires**	**Outer jacket** Y: PVC	**Conductor size** AWG	**Dielectric** of the single Picocoax® wire - K: FEP C: Celloflon®	**Capacitance / 10** Ex : 100pF / 10 = 10

Multipicocoax® cables

TYPE PC 128 Y

Construction

1 - Outer jacket
2 - Braided shield
3 - Separating tape
4 -8 bundles of 18 Picocoax® wires
5 - Tensile strength fibre



Dimensions

AXON' REFERENCE	SINGLE PICOCOAX® WIRE (1)		NO. OF 18 PICOCOAX® BUNDLES ASSEMBLED WITH COLOURED FIBRE	NO. OF PICOCOAX® WIRES (2) (for 48 coaxials to be connected)		OVERALL Ø (mm) (3)
	AWG	OUTER Ø (mm)		MIN. OF CONNECTABLE COAXIALS (A)	REAL NO. OF COAXIALS (B)	
PC 128 Y 36 K 08	36	0.67	8	135	144	12.70
PC 128 Y 36 K 10	36	0.59	8	135	144	10.70
PC 128 Y 38 C 06	38	0.58	8	135	144	9.75
PC 128 Y 38 K 10	38	0.52	8	135	144	9.60
PC 128 Y 40 C 05	40	0.55	8	135	144	9.15
PC 128 Y 40 K 08	40	0.46	8	135	144	9.30
PC 128 Y 40 K 10	40	0.38	8	135	144	7.60
PC 128 Y 42 C 05	42	0.42	8	135	144	7.65
PC 128 Y 42 K 10	42	0.33	8	135	144	6.80
PC 128 Y 44 C 04	44	0.46	8	135	144	8.20
PC 128 Y 44 K 11	44	0.26	8	135	144	5.40
PC 128 Y 46 K 10	46	0.25	8	135	144	4.85

1) To know the detailed characteristics of the single Picocoax® wire, please ask for the corresponding technical data sheet.
2) Axon' Cable assembles a number (B) of Picocoax® wires, of which a guaranteed number (A) of Picocoax® wires are connectable. Those which cannot be used are marked for easier termination.
3) The diameter can be changed, please contact us.

Electrical characteristics

AXON' REFERENCE	NOM. CAPACITANCE (pF/m)	NOM. IMPEDANCE (Ω)
PC 128 Y 36 K 08	80	60
PC 128 Y 36 K 10	100	50
PC 128 Y 38 C 06	60	70
PC 128 Y 38 K 10	100	50
PC 128 Y 40 C 05	50	80
PC 128 Y 40 K 08	80	60

AXON' REFERENCE	NOM. CAPACITANCE (pF/m)	NOM. IMPEDANCE (Ω)
PC 128 Y 40 K 10	100	50
PC 128 Y 42 C 05	50	80
PC 128 Y 42 K 10	100	50
PC 128 Y 44 C 04	40	95
PC 128 Y 44 K 11	110	50
PC 128 Y 46 K 10	100	50

Identification code

The hereafter data are required to define your product. See page 21 for complete identification code.

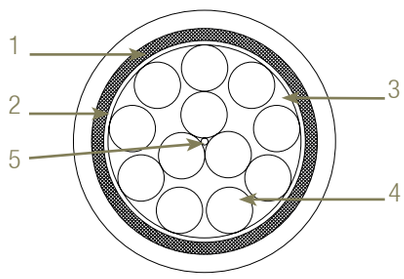
PC	128	Y	40	K	10
Cut Piece (length to be determined when ordering)	**No. of Picocoax® wires**	**Outer jacket** Y: PVC	**Conductor size** AWG	**Dielectric** of the single Picocoax® wire - K: FEP C: Celloflon®	**Capacitance / 10** Ex : 100pF / 10 = 10

Multipicocoax® cables

TYPE PC 192 Y

Construction

1 - Outer jacket
2 - Braided shield
3 - Separating tape
4 - 12 bundles of 18 Picocoax® wires
5 - Tensile strength fibre



Dimensions

AXON' REFERENCE	SINGLE PICOCOAX® WIRE (1)		NO. OF 18 PICOCOAX® BUNDLES ASSEMBLED WITH COLOURED FIBRE	NO. OF PICOCOAX® WIRES (2) (for 48 coaxials to be connected)		OVERALL Ø (mm) (3)
	AWG	OUTER Ø (mm)		MIN. OF CONNECTABLE COAXIALS (A)	REAL NO. OF COAXIALS (B)	
PC 192 Y 36 K 08	36	0.67	12	201	216	15.44
PC 192 Y 36 K 10	36	0.59	12	201	216	13.30
PC 192 Y 38 C 06	38	0.58	12	201	216	12.60
PC 192 Y 38 K 10	38	0.52	12	201	216	11.95
PC 192 Y 40 C 05	40	0.55	12	201	216	11.10
PC 192 Y 40 K 08	40	0.46	12	201	216	11.30
PC 192 Y 40 K 10	40	0.38	12	201	216	9.05
PC 192 Y 42 C 05	42	0.42	12	201	216	9.20
PC 192 Y 42 K 10	42	0.33	12	201	216	8.10
PC 192 Y 44 C 04	44	0.46	12	201	216	9.90
PC 192 Y 44 K 11	44	0.26	12	201	216	6.75
PC 192 Y 46 K 10	46	0.25	12	201	216	5.65

1) To know the detailed characteristics of the single Picocoax® wire, please ask for the corresponding technical data sheet.
2) Axon' Cable assembles a number (B) of Picocoax® wires, of which a guaranteed number (A) of Picocoax® wires are connectable. Those which cannot be used are marked for easier termination.
3) The diameter can be changed, please contact us.

Electrical characteristics

AXON' REFERENCE	NOM. CAPACITANCE (pF/m)	NOM. IMPEDANCE (Ω)
PC 192 Y 36 K 08	80	60
PC 192 Y 36 K 10	100	50
PC 192 Y 38 C 06	60	70
PC 192 Y 38 K 10	100	50
PC 192 Y 40 C 05	50	80
PC 192 Y 40 K 08	80	60

AXON' REFERENCE	NOM. CAPACITANCE (pF/m)	NOM. IMPEDANCE (Ω)
PC 192 Y 40 K 10	100	50
PC 192 Y 42 C 05	60	80
PC 192 Y 42 K 10	100	50
PC 192 Y 44 C 04	40	95
PC 192 Y 44 K 11	110	50
PC 192 Y 46 K 10	100	50

Identification code

The hereafter data are required to define your product. See page 21 for complete identification code.

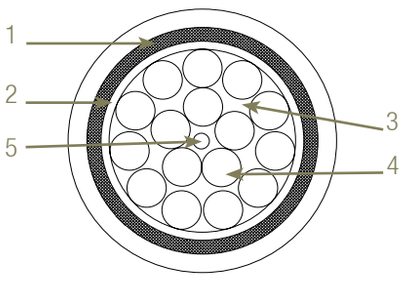
PC	192	Y	40	K	10
Cut Piece (length to be determined when ordering)	**No. of Picocoax® wires**	**Outer jacket** Y: PVC	**Conductor size** AWG	**Dielectric** of the single Picocoax® wire - K: FEP C: Celloflon®	**Capacitance / 10** Ex : 100pF / 10 = 10

Multipicocoax® cables

TYPE PC 256 Y

Construction

1 - Outer jacket
2 - Braided shield
3 - Separating tape
4 - 16 bundles of 18 Picocoax® wires
5 - Tensile strength fibre



Dimensions

AXON' REFERENCE	SINGLE PICOCOAX® WIRE (1)		NO. OF 18 PICOCOAX® BUNDLES ASSEMBLED WITH COLOURED FIBRE	NO. OF PICOCOAX® WIRES (2) (for 48 coaxials to be connected)		OVERALL Ø (mm) (3)
	AWG	OUTER Ø (mm)		MIN. OF CONNECTABLE COAXIALS (A)	REAL NO. OF COAXIALS (B)	
PC 256 Y 36 K 08	36	0.67	16	267	288	18.55
PC 256 Y 36 K 10	36	0.59	16	267	288	15.50
PC 256 Y 38 C 06	38	0.58	16	267	288	14.10
PC 256 Y 38 K 10	38	0.52	16	267	288	14.00
PC 256 Y 40 C 05	40	0.55	16	267	288	13.40
PC 256 Y 40 K 08	40	0.46	16	267	288	13.60
PC 256 Y 40 K 10	40	0.38	16	267	288	10.60
PC 256 Y 42 C 05	42	0.42	16	267	288	10.75
PC 256 Y 42 K 10	42	0.33	16	267	288	9.45
PC 256 Y 44 C 04	44	0.46	16	267	288	11.40
PC 256 Y 44 K 11	44	0.26	16	267	288	7.80
PC 256 Y 46 K 10	46	0.25	16	267	288	6.95

1) To know the detailed characteristics of the single Picocoax® wire, please ask for the corresponding technical data sheet.
2) Axon' Cable assembles a number (B) of Picocoax® wires, of which a guaranteed number (A) of Picocoax® wires are connectable. Those which cannot be used are marked for easier termination.
3) The diameter can be changed, please contact us.

Electrical characteristics

AXON' REFERENCE	NOM. CAPACITANCE (pF/m)	NOM. IMPEDANCE (Ω)
PC 256 Y 36 K 08	80	60
PC 256 Y 36 K 10	100	50
PC 256 Y 38 C 06	60	70
PC 256 Y 38 K 10	100	50
PC 256 Y 40 C 05	50	80
PC 256 Y 40 K 08	80	60

AXON' REFERENCE	NOM. CAPACITANCE (pF/m)	NOM. IMPEDANCE (Ω)
PC 256 Y 40 K 10	100	50
PC 256 Y 42 C 05	60	80
PC 256 Y 42 K 10	100	50
PC 256 Y 44 C 04	40	95
PC 256 Y 44 K 11	110	50
PC 256 Y 46 K 10	100	50

Identification code

The hereafter data are required to define your product. See page 21 for complete identification code.

PC	256	Y	40	K	10
Cut Piece (length to be determined when ordering)	**No. of Picocoax® wires**	**Outer jacket** Y: PVC	**Conductor size** AWG	**Dielectric** of the single Picocoax® wire - K: FEP C: Celloflon®	**Capacitance / 10** Ex : 100pF / 10 = 10

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