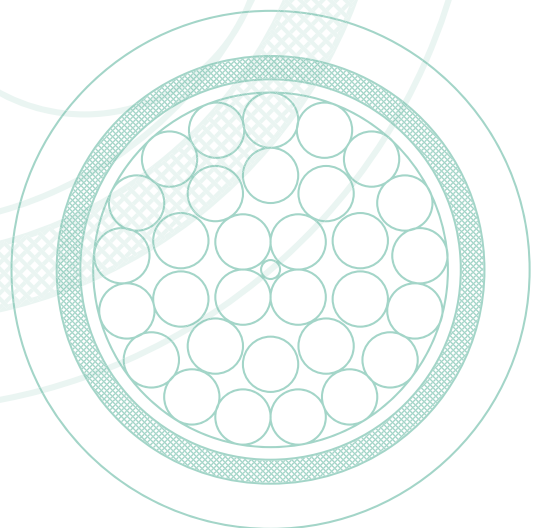




WIRES
CABLES

PICOCOAX®

MINIATURE COAXIAL CABLES



axon'

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PICOCOAX®

MINIATURE COAXIAL CABLES

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THIS CATALOGUE IS INTENDED AS A GUIDE TO HELP SELECTION OF AXON' PRODUCTS. THE INFORMATION IN THIS CATALOGUE IS ACCURATE TO THE BEST OF OUR KNOWLEDGE AT TIME OF GOING TO PRINT, HOWEVER, AXON' CANNOT BE HELD LIABLE FOR ANY ERRORS MADE AS A RESULT, INFORMATION CONTAINED HEREIN. CHANGES AND MODIFICATIONS CAN BE MADE TO THIS BROCHURE AT ANY TIME WITHOUT PRIOR NOTICE.



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®.

DEFINITION

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.

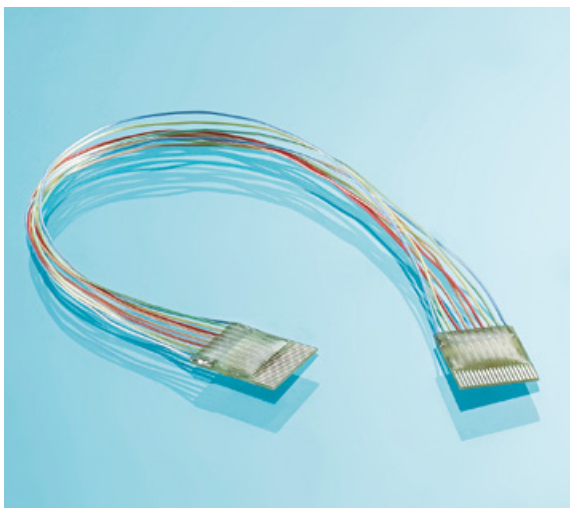
FROM SINGLE WIRES TO COMPOSITE CABLES

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).

APPLICATIONS

Any application which requires signal transmission in a limited space:

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



PICOCOAX® WIRES CONNECTED TO PRINTED CIRCUIT BOARDS

AXON' REFERENCE IDENTIFICATION CODE

IDENTIFICATION CODE	PCX	40	K	10	A	K
SERIES						
PCX: Picocoax®						
AWG						
36 to 46						
DIELECTRIC						
K: FEP						
C: Celloflon						
F: PFA						
P: Wrapped Polyester						
CAPACITANCE/10						
SERVED SHIELD						
A: Silver Plated Copper Alloy						
B: Tin Plated Copper						
C: Silver Plated Copper						
E: Silver Plated Copper Alloy (SHT)						
JACKET						
K: FEP						
F: PFA						
P: Wrapped Polyester						

FOR FURTHER INFORMATION, OUR SALES TEAM IS AT YOUR DISPOSAL FOR ANY ADVICE YOU MAY REQUIRE.



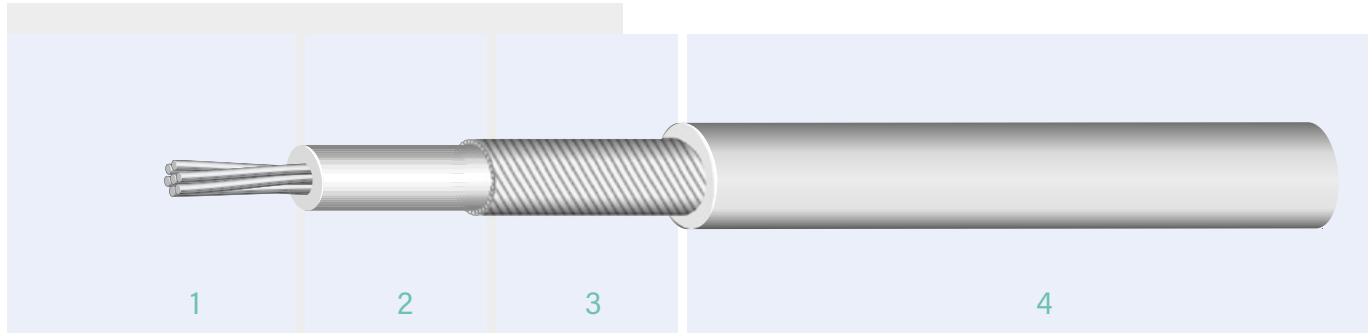
PICOCOAX® WIRES: KEY FEATURES

- 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 WIRES

TYPE PCX 36 K 08 xx



Construction

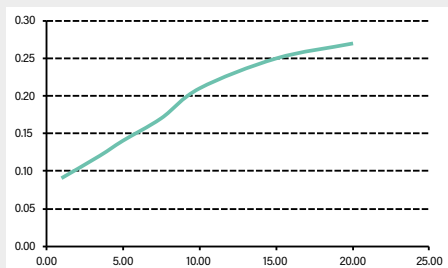
1. Conductor: Silver Plated Copper Alloy.
2. Dielectric: FEP.
3. Served shield: Silver Plated Copper Alloy.
Other options see page 3.
4. Jacket: FEP(*) - Other options see page 3.

(*) 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

ATTENUATION dB/m



FREQUENCY MHz

Frequency MHz	1	3.5	5	7.5	10	15	20
Attenuation	0.09	0.12	0.14	0.17	0.21	0.25	0.27

Electrical characteristics

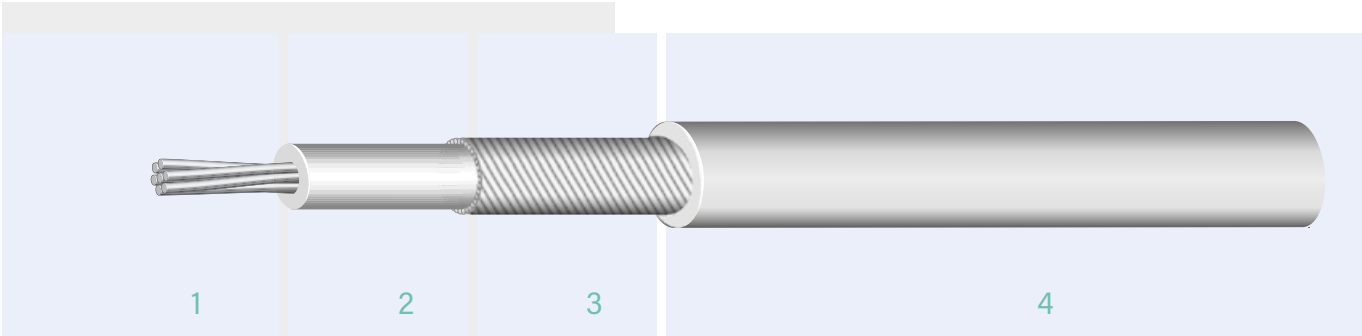
- Nominal resistance: 1.99 Ω /m.
- Nominal resistance (shield/conductor): 1.80 Ω /m.
- Nominal capacitance: 80 pF/m.
- Nominal impedance: 60 Ω .

Identification code

PCX	36	K	08	A (B)	K (F)
Picocoax®	Conductor size: AWG	Dielectric: K: FEP	Capitance / 10 Ex: capacitance: 80 (pF/m)/ 10 = 08	Shielding: A: Silver Plated Copper Alloy B: Tin Plated Copper Other options see page 3	Jacket: K: FEP F: PFA Other options see page 3

SINGLE WIRES

TYPE PCX 36 K 10 xx



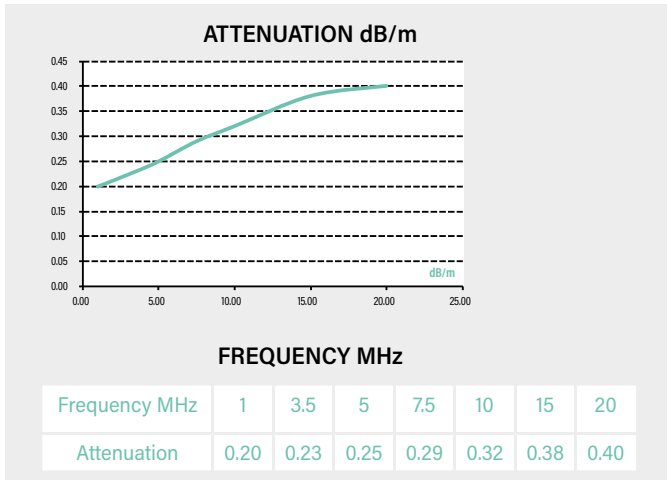
Construction

- 1. Conductor: Silver Plated Copper Alloy.
- 2. Dielectric: FEP.
- 3. Served shield: Silver Plated Copper Alloy.
Other options see page 3.
- 4. Jacket: FEP(*) - Other options see page 3.

(*) 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.

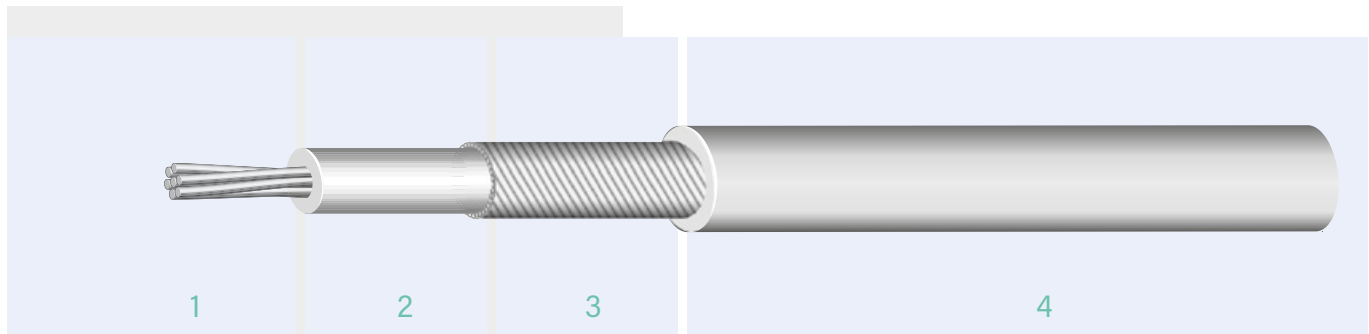
Identification code

PCX	36	K	10	A (B)	K (F)
Picocoax®	Conducteur size: AWG	Dielectric: K: FEP	Capitance / 10 Ex: capacitance: 100 (pF/m)/10 = 10	Shielding: A: Silver Plated Copper Alloy B: Tin Plated Copper Other options see page 3	Jacket: K: FEP F: PFA Other options see page 3



SINGLE WIRES

TYPE **PCX 38 C 06 xx**



Construction

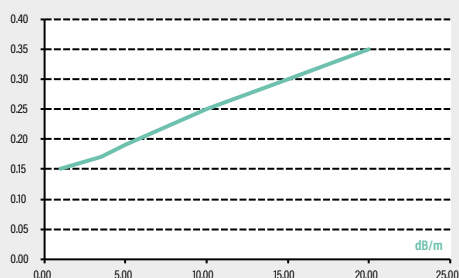
1. Conductor: Silver Plated Copper Alloy.
2. Dielectric: Celloflon®.
3. Served shield: Silver Plated Copper Alloy.
Other options see page 3.
4. Jacket: FEP(*) - Other options see page 3.

(*) 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

ATTENUATION dB/m



FREQUENCY MHz

Frequency MHz	1	3.5	5	7.5	10	15	20
Attenuation	0.15	0.17	0.19	0.22	0.25	0.30	0.35

Electrical characteristics

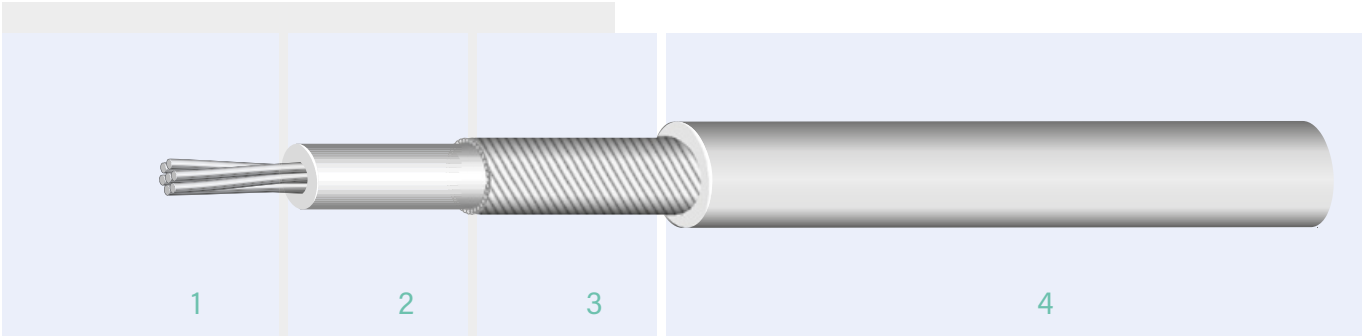
- Nominal resistance: 3.11 Ω/m.
- Nominal resistance (shield/conductor): 2.95 Ω/m.
- Nominal capacitance: 60 pF/m.
- Nominal impedance: 70 Ω.

Identification code

PCX	38	C	06	A (B)	K (F)
Picocoax®	Conducteur size: AWG	Dielectric: C: Celloflon®	Capitance / 10 Ex: capacitance: 60 (pF/m)/10 = 06	Shielding: A: Silver Plated Copper Alloy B: Tin Plated Copper Other options see page 3	Jacket: K: FEP F: PFA Other options see page 3

SINGLE WIRES

TYPE **PCX 38 K 10 xx**



Construction

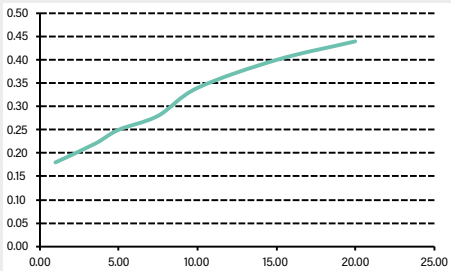
1. Conductor: Silver Plated Copper Alloy.
2. Dielectric: FEP.
3. Served shield: Silver Plated Copper Alloy.
Other options see page 3.
4. Jacket: FEP(*) - Other options see page 3.

(*) 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

ATTENUATION dB/m



FREQUENCY MHz

Frequency MHz	1	3.5	5	7.5	10	15	20
Attenuation	0.18	0.22	0.25	0.28	0.34	0.40	0.44

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.

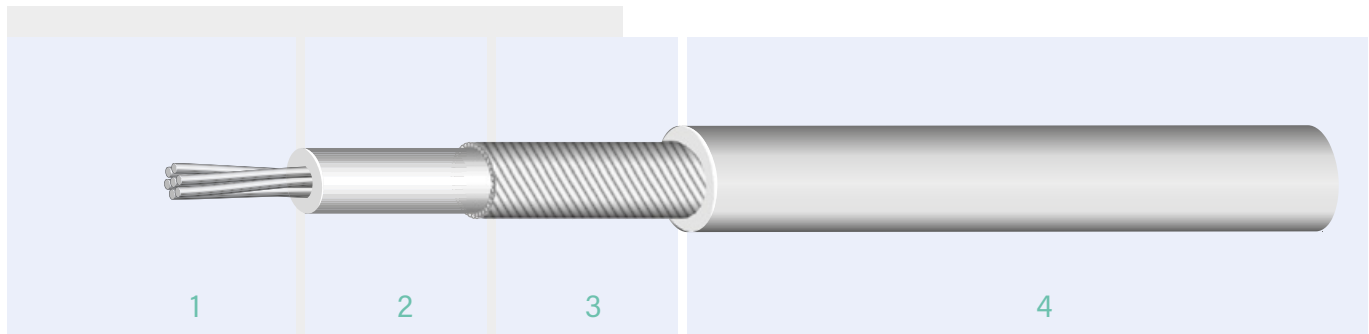
Identification code

PCX	38	K	10	A (B)	K (F)
Picocoax®	Conducteur size: AWG	Dielectric: K: FEP	Capitance / 10 Ex: capacitance: 100 (pF/m)/ 10 = 10	Shielding: A: Silver Plated Copper Alloy B: Tin Plated Copper Other options see page 3	Jacket: K: FEP F: PFA Other options see page 3



SINGLE WIRES

TYPE **PCX 40 C 05 xx**



Construction

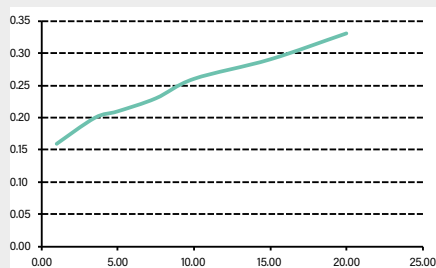
1. Conductor: Silver Plated Copper Alloy.
2. Dielectric: Celloflon®.
3. Served shield: Silver Plated Copper Alloy.
Other options see page 3.
4. Jacket: FEP(*) - Other options see page 3.

(*) 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

ATTENUATION dB/m



FREQUENCY MHz

Frequency MHz	1	3.5	5	7.5	10	15	20
Attenuation	0.16	0.20	0.21	0.23	0.26	0.29	0.33

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 .

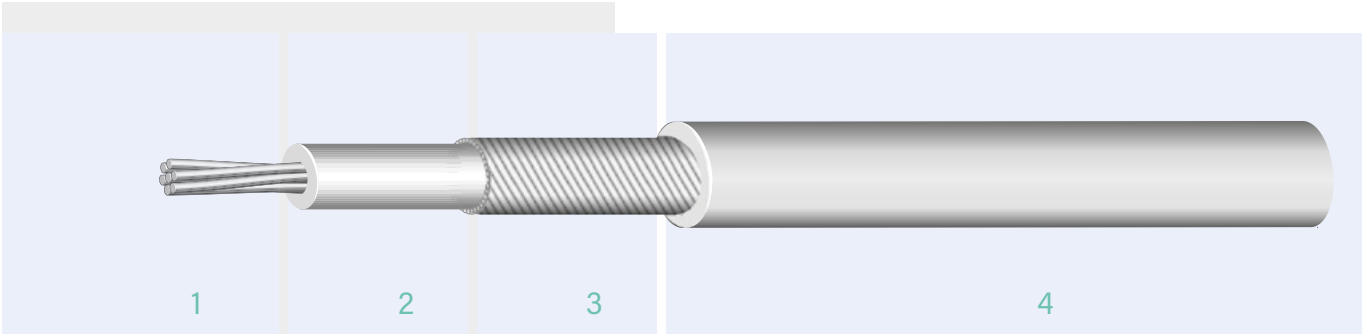
Identification code

PCX	40	C	05	A	K (F)
Picocoax®	Conducteur size: AWG	Dielectric: C: Celloflon®	Capitance / 10 Ex: capacitance: 50 (pF/m)/10 = 05	Shielding: A: Silver Plated Copper Alloy	Jacket: K: FEP F: PFA Other options see page 3



SINGLE WIRES

TYPE PCX 40 K 08 xx



Construction

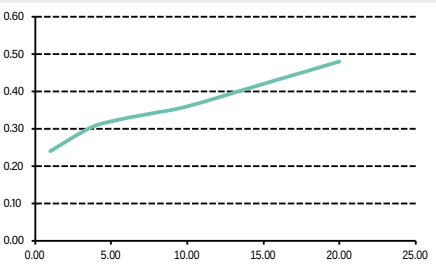
1. Conductor: Silver Plated Copper Alloy.
2. Dielectric: FEP.
3. Served shield: Silver Plated Copper Alloy.
Other options see page 3.
4. Jacket: FEP(*) - Other options see page 3.

(*) 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

ATTENUATION dB/m



FREQUENCY MHz

Frequency MHz	1	3.5	5	7.5	10	15	20
Attenuation	0.24	0.30	0.32	0.34	0.36	0.42	0.48

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.

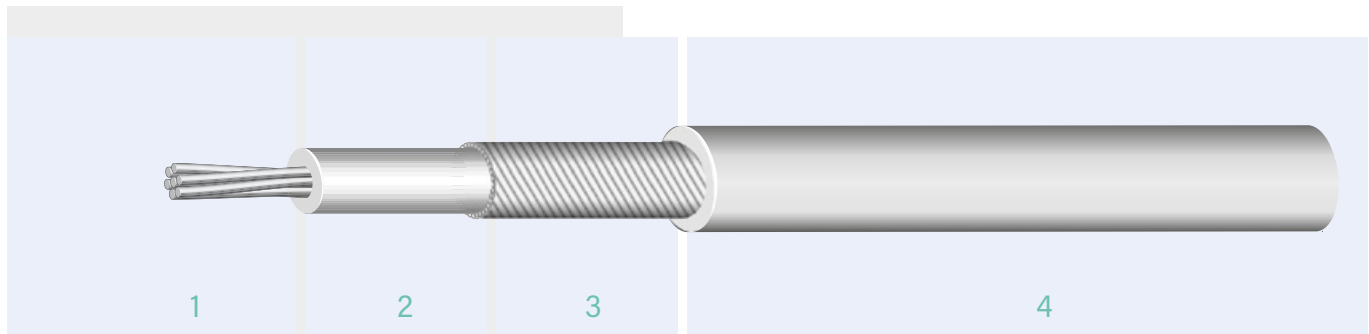
Identification code

PCX	40	K	08	A	K (F)
Picocoax®	Conducteur size: AWG	Dielectric: K: FEP	Capitance / 10 Ex: capacitance: 80 (pF/m)/10 = 08	Shielding: A: Silver Plated Copper Alloy	Jacket: K: FEP F: PFA Other options see page 3



SINGLE WIRES

TYPE PCX 40 K 10 xx



Construction

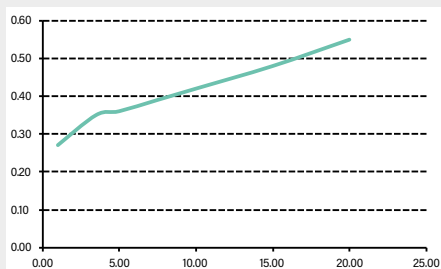
1. Conductor: Silver Plated Copper Alloy.
2. Dielectric: FEP.
3. Served shield: Silver Plated Copper Alloy.
Other options see page 3.
4. Jacket: FEP(*) - Other options see page 3.

(*) 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

ATTENUATION dB/m



FREQUENCY MHz

Frequency MHz	1	3.5	5	7.5	10	15	20
Attenuation	0.27	0.35	0.36	0.39	0.42	0.48	0.55

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 .

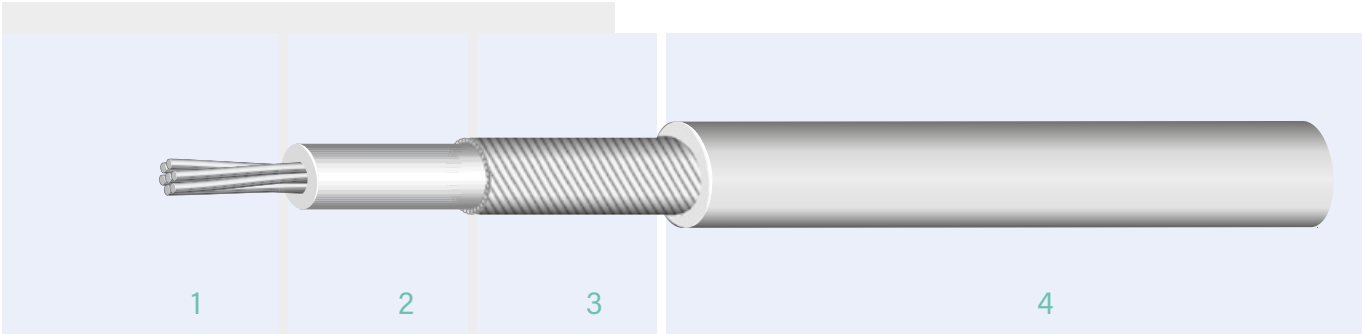
Identification code

PCX	40	K	10	A	K (F)
Picocoax®	Conducteur size: AWG	Dielectric: K: FEP	Capitance / 10 Ex: capacitance: 100 (pF/m)/10 = 10	Shielding: A: Silver Plated Copper Alloy	Jacket: K: FEP F: PFA Other options see page 3



SINGLE WIRES

TYPE **PCX 42 C 05 xx**



Construction

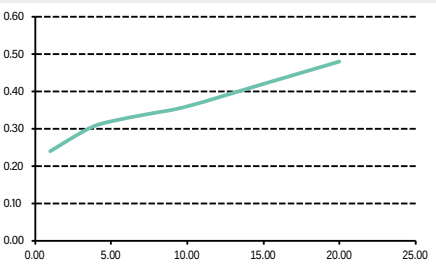
1. Conductor: Silver Plated Copper Alloy.
2. Dielectric: Celloflon®.
3. Served shield: Silver Plated Copper Alloy.
Other options see page 3.
4. Jacket: FEP(*) - Other options see page 3.

(*) 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

ATTENUATION dB/m



FREQUENCY MHz

Frequency MHz	1	3.5	5	7.5	10	15	20
Attenuation	0.25	0.35	0.37	0.40	0.42	0.46	0.52

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 .

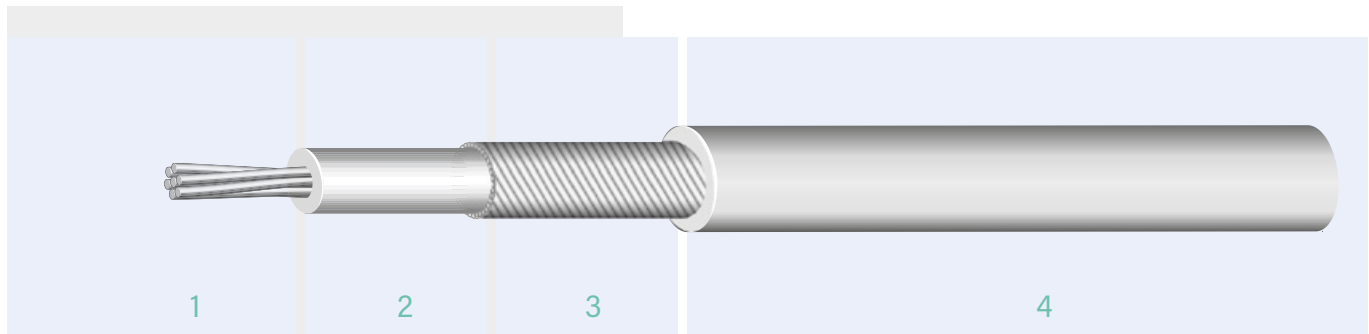
Identification code

PCX	42	C	05	A	K (F)
Picocoax®	Conducteur size: AWG	Dielectric: C: Celloflon®	Capitance / 10 Ex: capacitance: 50 (pF/m)/10 = 05	Shielding: A: Silver Plated Copper Alloy	Jacket: K: FEP F: PFA Other options see page 3



SINGLE WIRES

TYPE PCX 42 K 10 xx



Construction

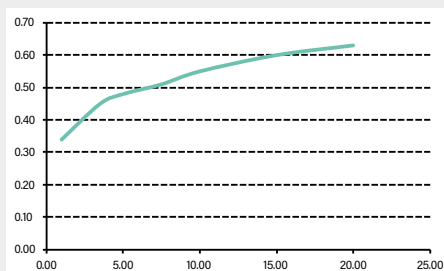
1. Conductor: Silver Plated Copper Alloy.
2. Dielectric: FEP.
3. Served shield: Silver Plated Copper Alloy.
Other options see page 3.
4. Jacket: FEP(*) - Other options see page 3.

(*) 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	0.25	0.33

ATTENUATION dB/m



FREQUENCY MHz

Frequency MHz	1	3.5	5	7.5	10	15	20
Attenuation	0.34	0.45	0.48	0.51	0.55	0.60	0.63

Electrical characteristics

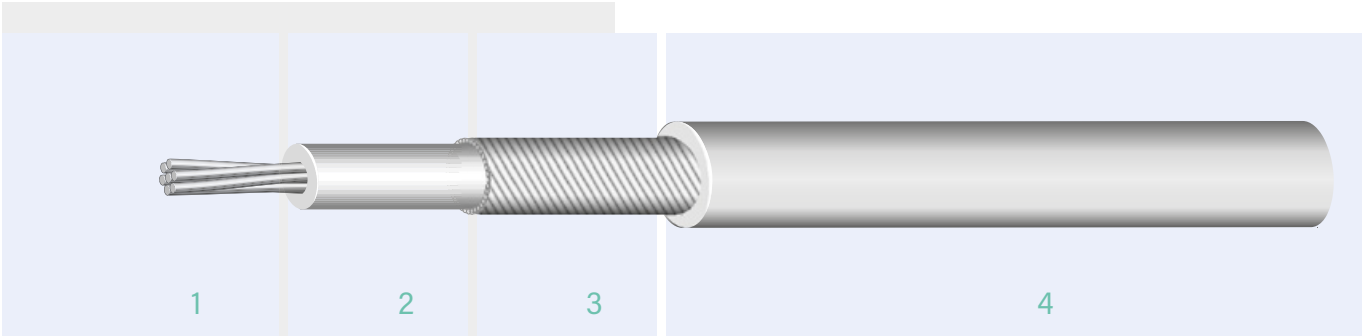
- Nominal resistance: 7.97 Ω /m.
- Nominal resistance (shield/conductor): 7.07 Ω /m.
- Nominal capacitance: 100 pF/m.
- Nominal impedance: 50 Ω

Identification code

PCX	42	K	10	A	K (F)
Picocoax®	Conducteur size: AWG	Dielectric: K: FEP	Capitance / 10 Ex: capacitance: 100 (pF/m)/10 = 10	Shielding: A: Silver Plated Copper Alloy	Jacket: K: FEP F: PFA Other options see page 3

SINGLE WIRES

TYPE **PCX 44 C 04 xx**



Construction

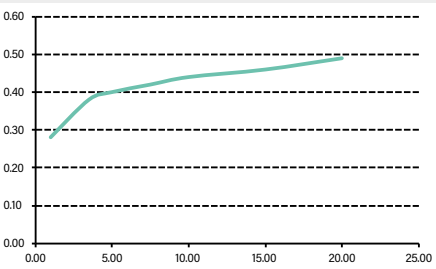
- 1. Conductor: Silver Plated Copper Alloy.
- 2. Dielectric: Celloflon®.
- 3. Served shield: Silver Plated Copper Alloy.
Other options see page 3.
- 4. Jacket: FEP(*) - Other options see page 3.

(*) 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

ATTENUATION dB/m



FREQUENCY MHz

Frequency MHz	1	3.5	5	7.5	10	15	20
Attenuation	0.28	0.38	0.40	0.42	0.44	0.46	0.49

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.

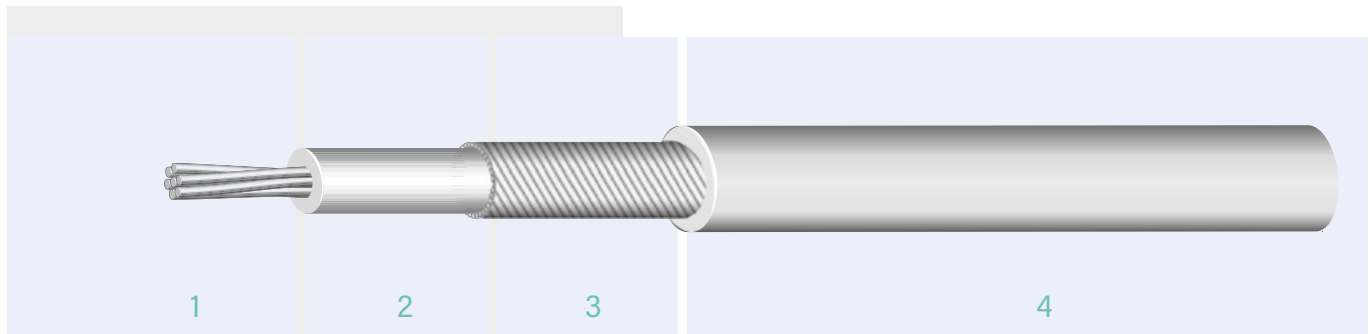
Identification code

PCX	44	C	04	A	K (F)
Picocoax®	Conducteur size: AWG	Dielectric: C: Celloflon®	Capitance / 10 Ex: capacitance: 40 (pF/m)/10 = 04	Shielding: A: Silver Plated Copper Alloy	Jacket: K: FEP F: PFA Other options see page 3



SINGLE WIRES

TYPE PCX 44 K 11 xx



Construction

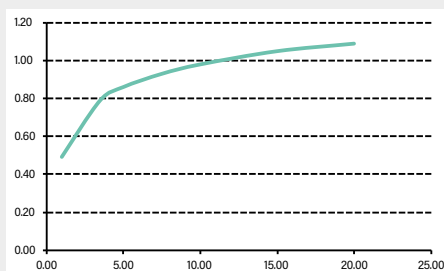
1. Conductor: Silver Plated Copper Alloy.
2. Dielectric: FEP.
3. Served shield: Silver Plated Copper Alloy.
Other options see page 3.
4. Jacket: FEP(*) - Other options see page 3.

(*) 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

ATTENUATION dB/m



FREQUENCY MHz

Frequency MHz	1	3.5	5	7.5	10	15	20
Attenuation	0.49	0.79	0.86	0.93	0.98	1.05	1.09

Electrical characteristics

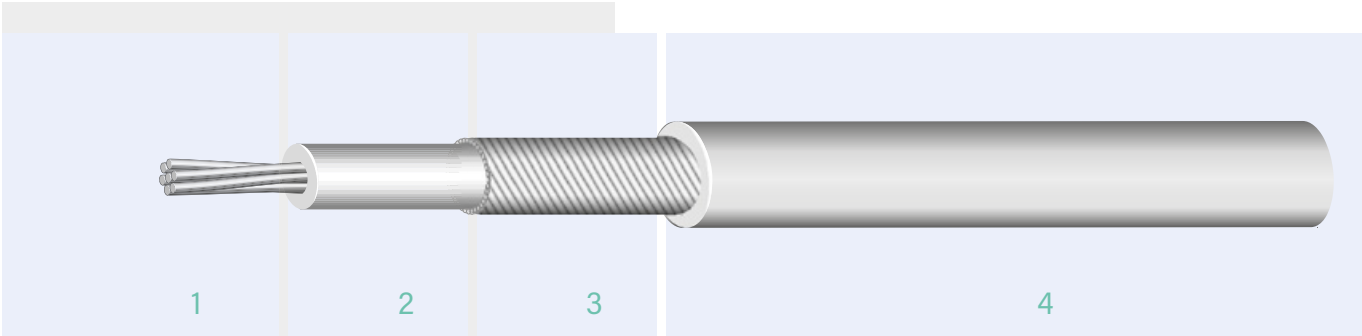
- Nominal resistance: 13.00 Ω /m.
- Nominal resistance (shield/conductor): 14.50 Ω /m.
- Nominal capacitance: 110 pF/m.
- Nominal impedance: 50 Ω .

Identification code

PCX	44	K	11	A	K (F)
Picocoax®	Conducteur size: AWG	Dielectric: K: FEP	Capitance / 10 Ex: capacitance: 110 (pF/m)/10 = 11	Shielding: A: Silver Plated Copper Alloy	Jacket: K: FEP F: PFA Other options see page 3

SINGLE WIRES

TYPE **PCX 46 K 10 xx**



Construction

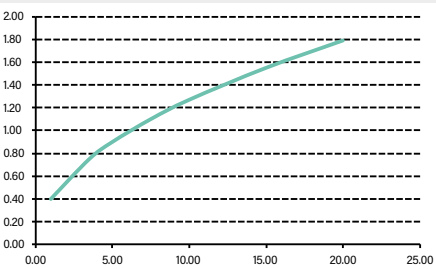
- 1. Conductor: Silver Plated Copper Alloy.
- 2. Dielectric: FEP.
- 3. Served shield: Silver Plated Copper Alloy.
Other options see page 3.
- 4. Jacket: FEP(*) - Other options see page 3..

(*) 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

ATTENUATION dB/m



FREQUENCY MHz

Frequency MHz	1	3.5	5	7.5	10	15	20
Attenuation	0.40	0.75	0.90	1.10	1.27	1.55	1.79

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.

Identification code

PCX	46	K	10	A	K (F)
Picocoax®	Conducteur size: AWG	Dielectric: K: FEP	Capitance / 10 Ex: capacitance: 100 (pF/m)/10 = 10	Shielding: A: Silver Plated Copper Alloy	Jacket: K: FEP F: PFA Other options see page 3



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 & 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.

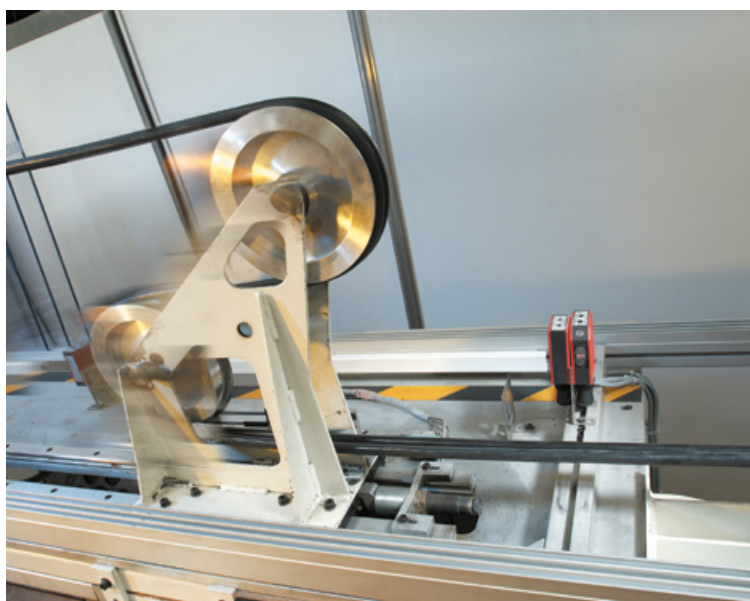
TEST CAPABILITIES

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.

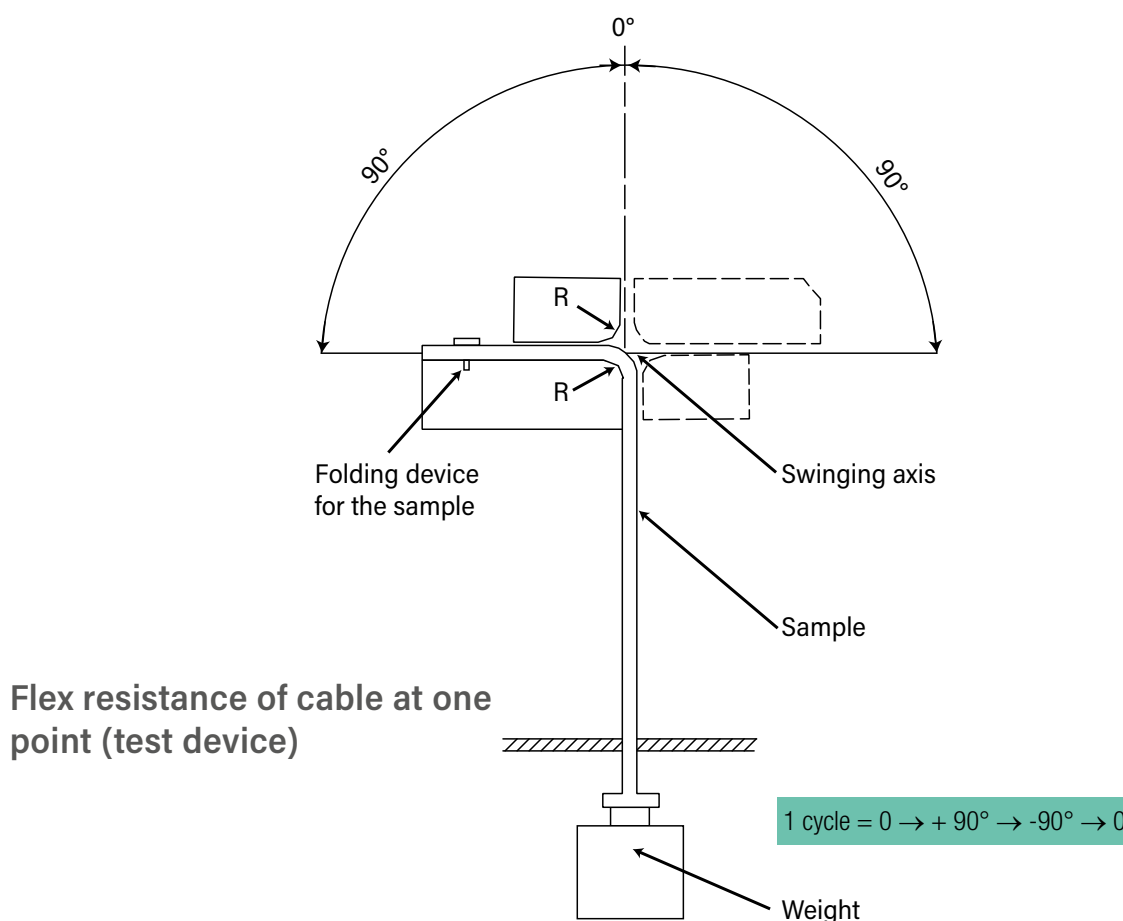
BENDING TEST



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.



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.



MULTIPICOCOAX® CABLES

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.

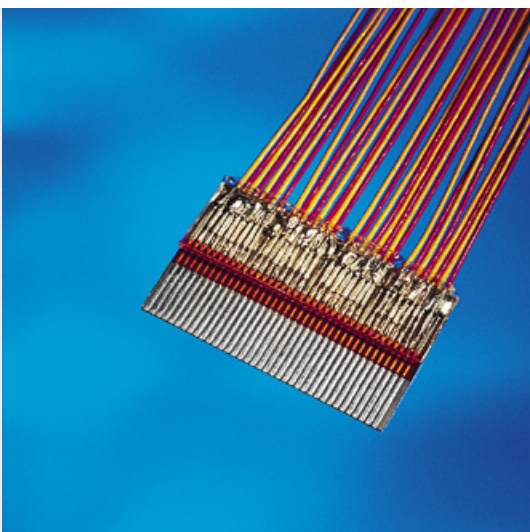
100 % of electrical testing will be carried out by Axon' Cable.

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).



WELDING WITH PCB



WELDING WITH PCB

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.

AXON’ REFERENCE IDENTIFICATION CODE

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

					Basic technical info.													
IDENTIFICATION CODE					PC	80	Y	40	C05	A	8	K	B	G	670	L2500		

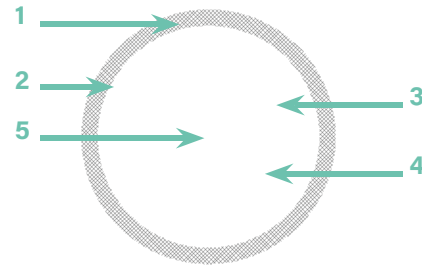


MULTIPICOCOAX® CABLES

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	3.35
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)	AXON' REFERENCE	NOM. CAPACITANCE (pF/m)	NOM. IMPEDANCE (Ω)
PC 48 Y 36 K 08	80	60	PC 48 Y 40 K 08	100	50
PC 48 Y 36 K 10	100	50	PC 48 Y 42 C 05	50	80
PC 48 Y 38 C 06	60	70	PC 48 Y 42 K 10	100	50
PC 48 Y 38 K 10	100	50	PC 48 Y 44 C 04	40	95
PC 48 Y 40 C 05	50	80	PC 48 Y 44 K 11	110	50
PC 48 Y 40 K 08	80	60	PC 48 Y 46 K 10	100	50

Identification code

The hereafter data are required to define your product. See page 19 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

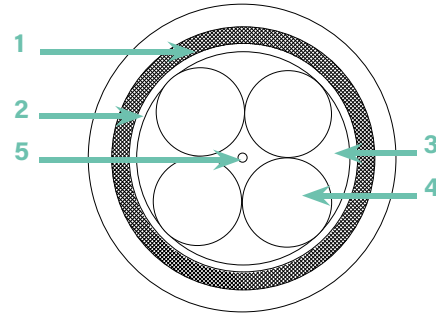


MULTIPICCOAX® CABLES

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
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 19 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

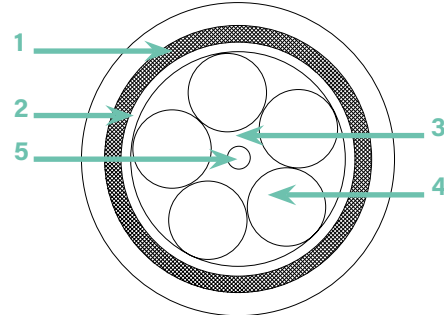


MULTIPICCOAX® CABLES

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 08	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 19 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

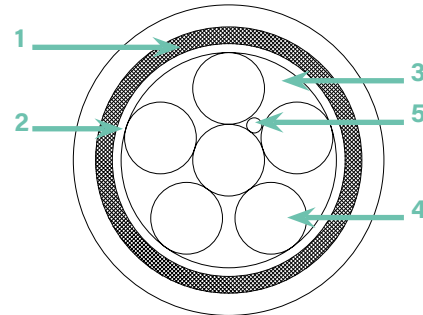


MULTIPICOCOAX® CABLES

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 19 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

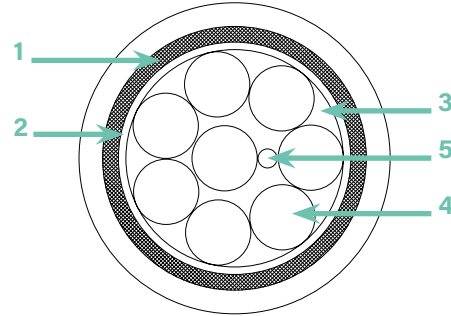


MULTIPICOCOAX® CABLES

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 08	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 19 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

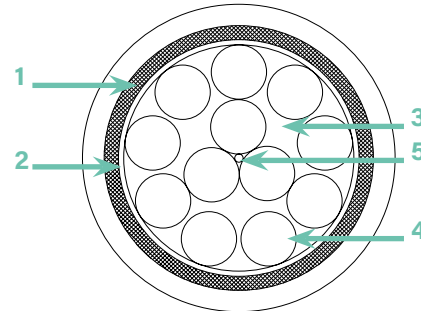


MULTIPICCOAX® CABLES

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 19 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

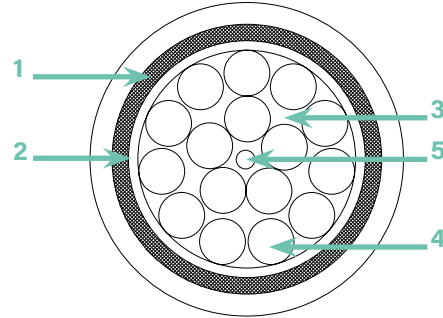


MULTIPICCOAX® CABLES

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 116 PICOCOAX® BUNDLES ASSEMBLED WITH COLOURED FIBRE	NO. OF PICOCOAX® WIRES (2) (for 416 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 316 C 06	38	0.58	16	267	288	14.10
PC 256 Y 316 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 19 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

This image shows a single page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, leaving small gaps between them. There are no margins, text, or other markings on the page.



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PICO COAX®

MINIATURE COAXIAL CABLES



CONTACT US

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- < Cables
- Cable assemblies
- Contacts
- Metal-plastic parts
- Elastomer components
- Fiber optic

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