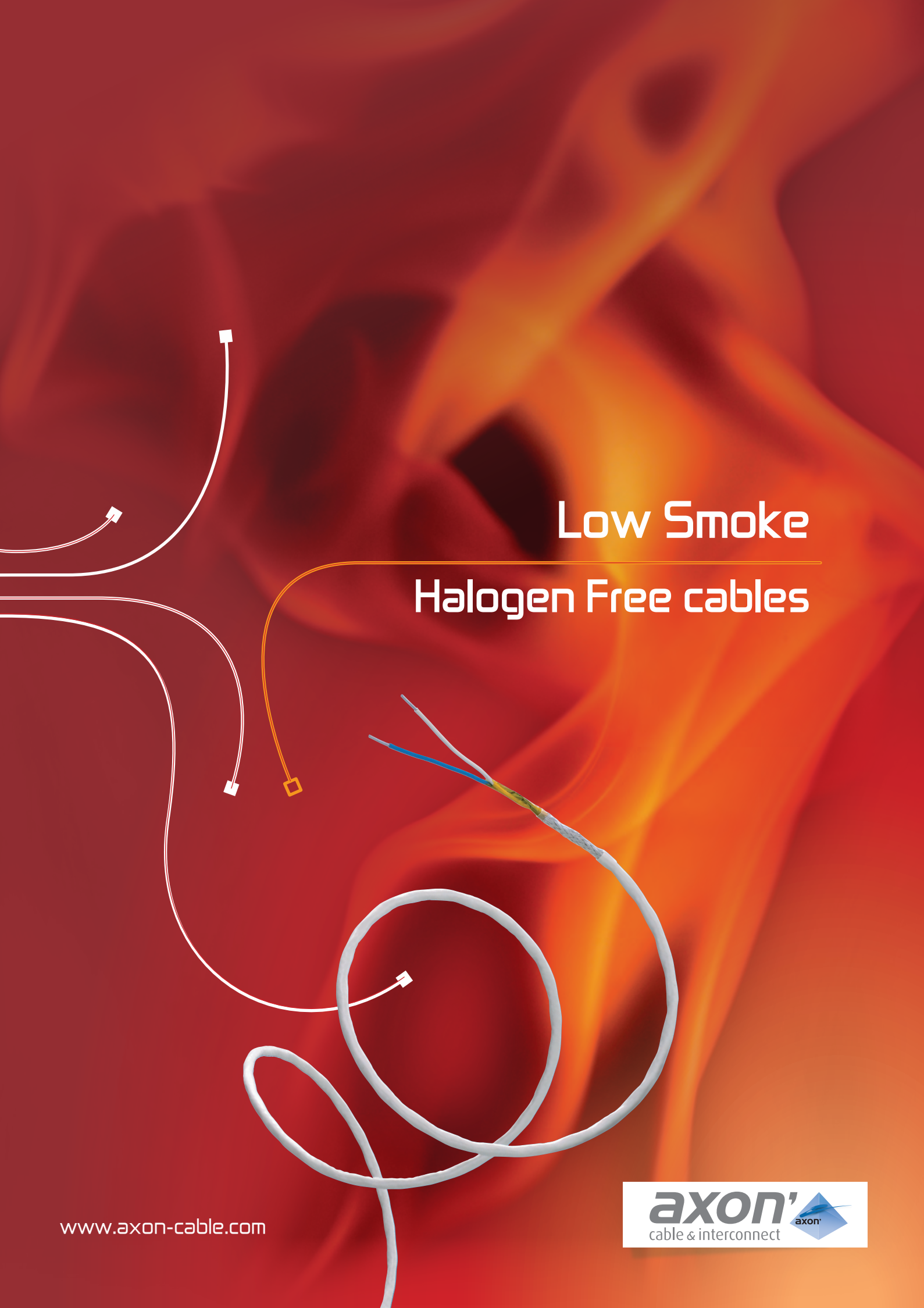


The background of the entire page is a close-up, high-contrast image of flames, rendered in shades of red, orange, and yellow. Overlaid on this background are several white and orange cables. Some cables are coiled, while others are straight with small square connectors at their ends. One cable in the center is cut, revealing blue and white internal wires.

Low Smoke Halogen Free cables

www.axon-cable.com

axon'
cable & interconnect



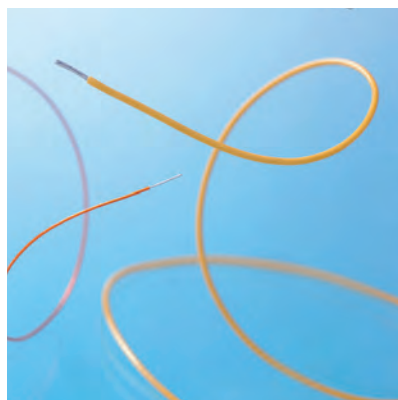


Low Smoke Halogen Free cables

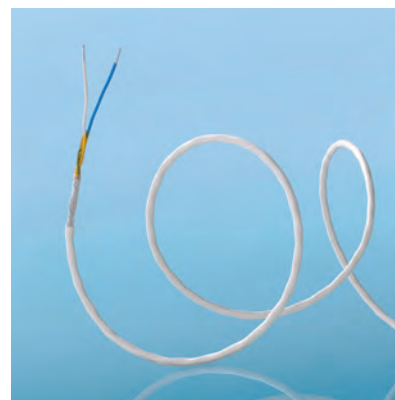
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└ SINGLE CORE HALOGEN FREE CABLE



└ TWISTED PAIR HALOGEN FREE CABLE

Low Smoke Halogen Free products

POLIAX LSZH THERMOPLASTIC INSULATED WIRES

SINGLE WIRES, 250 V _{AC} , 3-6 MGy	
XT xxxx TPC	7
SHIELDED & JACKETED WIRES, 250 V _{AC} , 3-6 MGy	
XT xxxx TSTX1 TPC	8
XT xxxx THSTX2 TPC	9
XT xxxx THSTX3 TPC	10
SINGLE WIRES, 600 V _{AC} , 3-6 MGy	
X xxxx TPC	11
SHIELDED & JACKETED WIRES, 600 V _{AC} , 3-6 MGy	
X xxxx TSTX1 TPC	12
X xxxx TSTX2 TPC	13
X xxxx TSTX3 TPC	14

NEUTRAX THERMOPLASTIC INSULATED WIRES

SINGLE WIRES, 250 V _{AC} , 5-10 MGy	
QT xxxx SPC	15
SINGLE WIRES, 600 V _{AC} , 5-10 MGy	
Q xxxx SPC	16

POLYIMIDE INSULATED WIRES

SINGLE WIRES, 250 V _{AC} , 10-50 MGy	
FHT xxxx SPC or SCA	17
SINGLE WIRES, 600 V _{AC} , 10-50 MGy	
FH xxxx SPC or SCA	18
SINGLE WIRES, 250 V _{AC} , 10-50 MGy	
FHT xxxx NPC or NCA	19
SINGLE WIRES, 600 V _{AC} , 10-50 MGy	
FH xxxx NPC or NCA	20
SINGLE WIRES, 250 V _{AC} , 20-70 MGy	
AT xxxx SPC or SCA	21
SINGLE WIRES, 600 V _{AC} , 20-70 MGy	
A xxxx SPC or SCA	22
SINGLE WIRES, 250 V _{AC} , 20-70 MGy	
AT xxxx NPC or NCA	23
SINGLE WIRES, 600 V _{AC} , 20-70 MGy	
A xxxx NPC or NCA	24

ASC3-55J JACKETED CABLES

XZT 19x0.59 / AWG 20	25
XZT 19x2.94 / AWG 12	26
XZT 30 PBLG0.38 / AWG 22	27



INDUSTRIAL FACILITIES

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.

General information

AXON' CABLE,
the manufacturer of
wires, cables,
and cable assemblies,
offers a range of
Low Smoke
Halogen Free cables
for public places and
industrial facilities.
This range of cables
has been designed
to avoid propagation
of fire and emission
of toxic fumes
in case of fire.

Non propagation of flame and fire

In public places, buildings, trains, subways, ships as well as industrial facilities, electrical cables have to work whilst maintaining a high level of security of people and material. In case of fire, the electrical cables shall not cause the fire or spread it. They shall not emit impenetrable, toxic or corrosive fumes that could damage equipment or harm people. AXON' low smoke and fire cables have been designed to meet the following requirements :

- › Non-propagation of flame and fire.
- › Low or no emission of fumes to allow the rescue team to work without visibility problems.
- › No emission of toxic fumes to assure the security of the people detained in the premises affected by the fire.
- › No emission of corrosive fumes to save equipment and buildings not affected by the fire.

The term «Zero Halogen»

During a fire, the most dangerous toxic gases emitted are acid gases such as hydrogen chloride (HCl), hydrogen fluoride (HF) and hydrogen bromide (HBr).

These gases are produced by the combustion of materials containing halogen materials such as Chlorine, Fluorine, Bromine, Iodine and Astatine.

As a consequence, insulation materials of cables should not contain halogen materials to meet the security requirements.

AXON' has listed the insulating materials of primary wires and jacketing according to their reaction to fire. Standardized tests have enabled to define the behaviour of the materials with regard to flame and fire propagation, fume opacity, toxicity and corrosivity of the gas emissions.

Common «Halogen Free» terminology

LSHF	Low Smoke Halogen Free
LSZH/ LSOH	Low Smoke Zero Halogen
HFFR	Halogen Free Flame Retardant
ZH/OH	Zero Halogen
LSF	Low Smoke Fume

Most commonly required qualifications

FRENCH STANDARD	CORRESPONDANT INTERNATIONAL STANDARD	TESTS
CABLES		
NF C 32-70 TEST 1 CATEGORY C2	IEC 60 332-1	TESTS ON ELECTRICAL CABLES UNDER FIRE CONDITIONS.
NF C 32-70 TEST 2 CATEGORY C1	IEC 60 332-3	NON PROPAGATION OF FLAME NON PROPAGATION OF FIRE
MATERIALS		
NF X 10-702	IEC 61 034-1 IEC 61 034-2	OPACITY OF FUMES
NF X 70-100	IEC 60 754-1	TESTS ON GASES EVOLVED DURING COMBUSTION OF MATERIALS FROM CABLES.
NF C 20-453	IEC 60 754-2	TEST ON GASES EVOLVED DURING COMBUSTION OF ELECTRICAL CABLES.
-	IEC 60 544-4	ELECTRICAL INSULATING MATERIALS – DETERMINATION OF THE EFFECTS OF IONIZING RADIATION.

Quality assurance

ISO 9001

TS 16949

EN 9100

Business Excellence Models (EFQM)

ISO 14001

OHSAS 18001

ISO 13485

Tests results

MATERIALS	PRIMARY INSULATION AND JACKETING							
	ASC3-92I TPO BASED	ASC3-55J TPO BASED	TPUE850HVO TPU BASED	POLIAx	AXOTHERM® SILICONE BASED	NEUTRAX PAEK BASED	TPI POLYIMIDE	TAPED POLYIMIDE
OPERATING TEMPERATURE	+70°C	+70°C	+125°C	+130°C	+180°C	+200°C +250°C	+240°C	+250°C
FLAME RETARDANT	YES	YES	YES	YES	YES	YES	YES	YES
SMOKE EMISSION	Dm = 200 VOF4 = 8	Dm = 248 VOF4 = 64	Dm = 253 VOF4 = 512	Dm = 283 VOF4 = 30	Dm = 74 VOF4 = 85	Dm = 20 VOF4 = 1	VERY LOW	VERY LOW
TOXICITY OF GAS EMISSION	ITC = 4	ITC = 3	ITC = 32	ITC = 10	ITC = 1.6	VERY LOW	VERY LOW	VERY LOW
CORROSIVITY OF FUMES	pH = 7.85	pH = 5.2	pH = 8.9	pH = 7.1	pH = 4.7	-	-	-
TENSILE STRENGTH AT BREAK (MPa)	14	13	35	30	6.5	100	90	170
ELONGATION AT BREAK (%)	≥ 200	150	600	≥ 100	≥ 200	30 - 100	90	120
RESISTANCE TO OIL	VERY GOOD	VERY GOOD	GOOD	VERY GOOD	AVERAGE	EXCELLENT	VERY GOOD	VERY GOOD
RADIATION RESISTANCE	500kGy-1MGy 50 - 100 Mrad	500kGy-1MGy 50 - 100 Mrad	1-2 MGy 100 - 200 Mrad	3-6 MGy 300 - 600 Mrad	500kGy-1MGy 50 - 100 Mrad	5-10 MGy 500 - 1000 Mrad	20-70 MGy 2000 - 7000 Mrad	10-50 MGy 1000 - 5000 Mrad

MORE INFO :
see axorad documentation

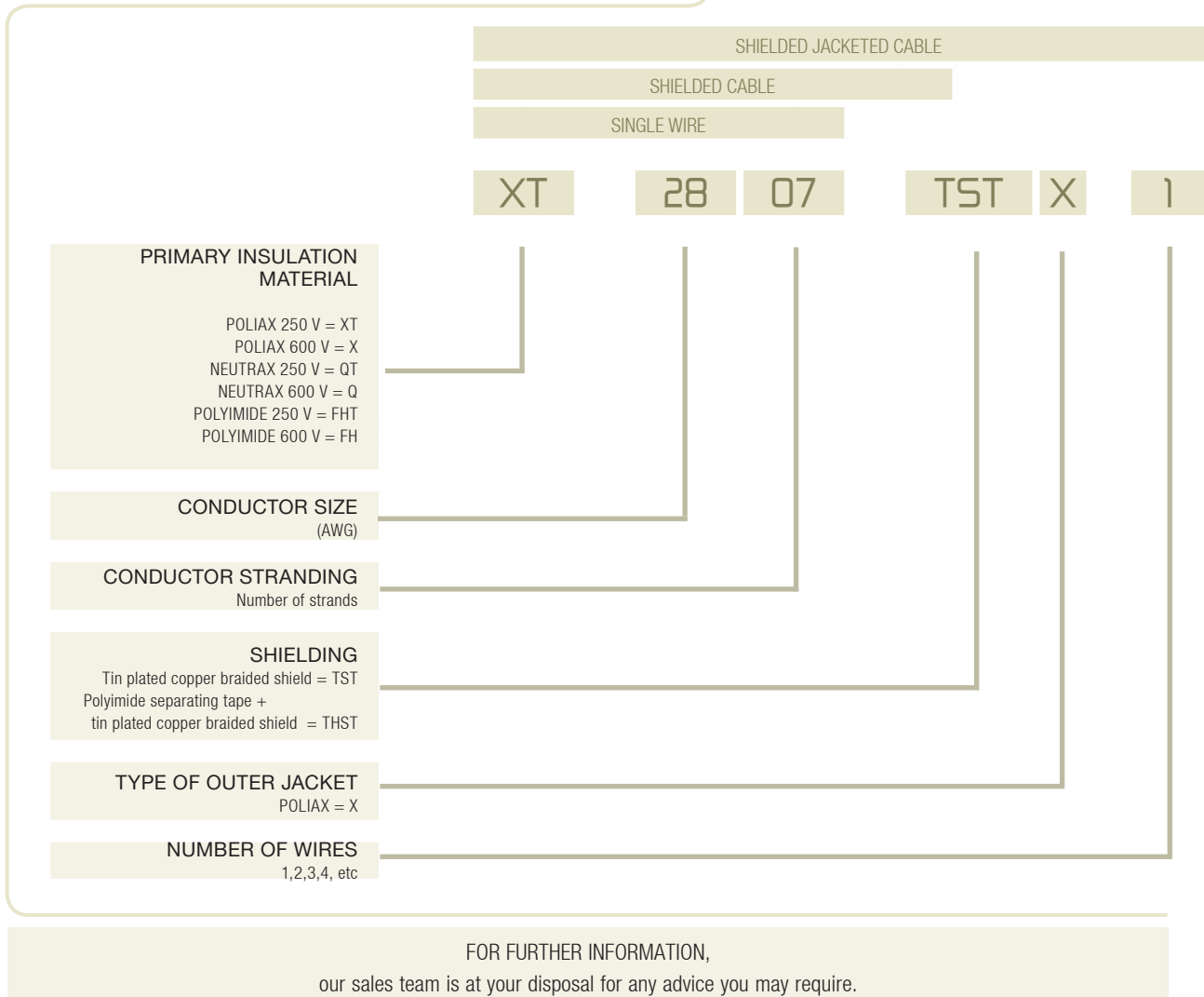
AXOTHERM® : REGISTERED TRADEMARK OF AXON' CABLE - ASC = AXON' SPECIAL COMPOUND

Dm = maximum optical density according to NF X 10-702 (corresponds to IEC 1034-1/2)

VOF4 = obscuration value due to fume during the first 4 minutes of test according to NF X 10-702 (corresponds to IEC 1034-1/2)

ITC = toxicity index calculated according to NF F 16-101 after analysis and proportionning according to NF X 70-100

AXON' reference identification code



HALOGEN FREE CABLES

Single wires

TYPE XT xxxx TPC

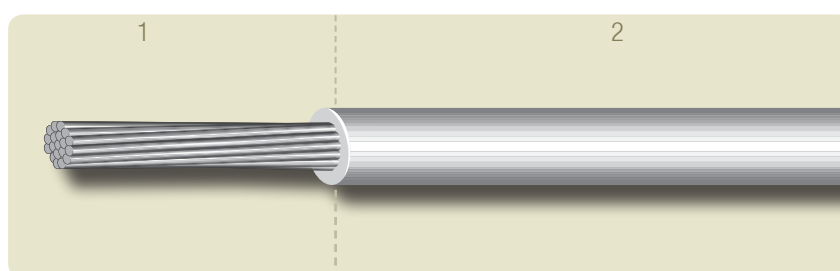
Insulation : POLIAX halogen free / LSZH

Operating temperature : -40°C up to +130°C

Voltage rating : 250 VAC

Radiation resistance : 3 MGy (300 Mrad) in standard atmosphere,
6 MGy (600 Mrad) in inert atmosphere

Colours : according to the customers requirements



Construction

PRIMARY WIRE

1 - Conductor : tin plated annealed copper (TPC)

2 - Insulation : POLIAX

Main characteristics

Pairs, triples and quads as well as shielded cables jacketed with ASC3-55J or other insulation materials will be studied according to the customers requirements.

Other constructions on request.

AXON' REFERENCE	AWG	CONDUCTOR				INSULATED WIRE	
		CONSTRUCTION (Nb x Ø mm)	Ø (mm)	AREA (mm ²)	MAXIMUM RESISTANCE (Ω/ 100m)	NOMINAL Ø (mm)	WEIGHT (g/m)
XT 2807 TPC	28	7 x 0.127	0.38	0.0886	20.8	0.70	1.10
XT 2619 TPC	26	19 x 0.102	0.48	0.154	12.87	0.80	1.80
XT 2419 TPC	24	19 x 0.127	0.60	0.24	7.66	0.95	2.70
XT 2237 TPC	22	37 x 0.114	0.78	0.38	5.08	1.10	4.20
XT 2037 TPC	20	37 x 0.142	0.97	0.59	3.37	1.30	6.20

TPC : TIN PLATED ANNEALED COPPER - LSZH : LOW SMOKE ZERO HALOGEN

Shielded jacketed single core cables

TYPE XT xxxx TSTX1 TPC

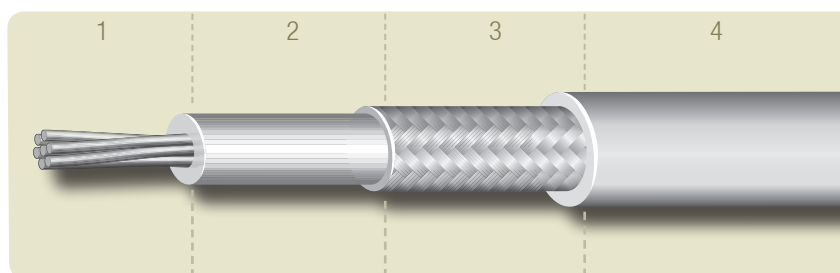
Insulation : POLIAX halogen free / LSZH

Operating temperature : -40°C up to +130°C

Voltage rating : 250 VAC

Radiation resistance : 3 MGy (300 Mrad) in standard atmosphere,
6 MGy (600 Mrad) in inert atmosphere

Outer jacket colour : white. Other colours upon request



Construction

PRIMARY WIRE

1 - Conductor : tin plated annealed copper (TPC)

2 - Insulation : POLIAX

SHIELDING

3 - Braided shield : tin plated annealed copper (TPC)

OUTER JACKET

4 - POLIAX

Main characteristics

Pairs, triples and quads as well as shielded cables jacketed with ASC3-55J or other insulation materials will be studied according to the customers requirements.

Other constructions on request.

AXON' REFERENCE	PRIMARY WIRE		SHIELDING			CABLE	
	REFERENCE	Ø (mm)	SHIELDING WIRE Ø (mm)	COVERAGE (%)	SHIELDING Ø (mm)	NOMINAL Ø (mm)	WEIGHT (g/m)
XT 2807 TSTX 1	XT 2807 TPC	0.70	0.102	85	1.15	1.40	4.40
XT 2619 TSTX 1	XT 2619 TPC	0.80	0.102	96	1.25	1.50	6.50
XT 2419 TSTX 1	XT 2419 TPC	0.95	0.102	93	1.40	1.70	7.60
XT 2237 TSTX 1	XT 2237 TPC	1.10	0.102	88	1.55	1.90	9.50
XT 2037 TSTX 1	XT 2037 TPC	1.30	0.102	93	1.75	2.15	13.10

TPC : TIN PLATED ANNEALED COPPER - LSZH : LOW SMOKE ZERO HALOGEN

Shielded jacketed twisted pairs

TYPE XT xxxx THSTX2 TPC

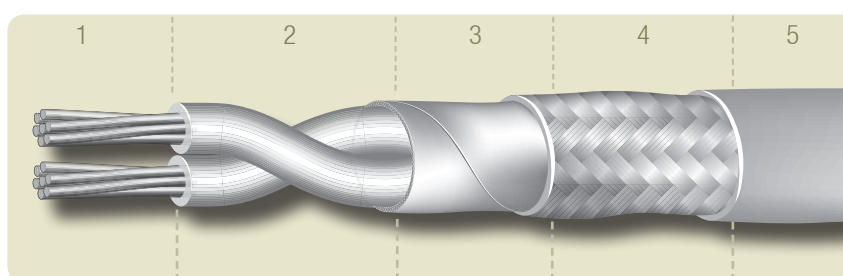
Insulation : POLIAX halogen free / LSZH

Operating temperature : -40°C up to +130°C

Voltage rating : 250 V_{AC}

Radiation resistance : 3 MGy (300 Mrad) in standard atmosphere,
6 MGy (600 Mrad) in inert atmosphere

Outer jacket colour : white. Other colours upon request



Construction

PRIMARY WIRE

1 - Conductor : tin plated annealed copper (TPC)

2 - Insulation : POLIAX

TAPE

3 - Polyimide separating tape

SHIELDING

4 - Braided shield : tin plated annealed copper (TPC)

OUTER JACKET

5 - POLIAX

Main characteristics

Pairs, triples and quads as well as shielded cables jacketed with ASC3-55J or other insulation materials will be studied according to the customers requirements.

Other constructions on request.

AXON' REFERENCE	PRIMARY WIRE		SHIELDING			CABLE	
	REFERENCE	Ø (mm)	SHIELDING WIRE Ø (mm)	COVERAGE (%)	SHIELDING Ø (mm)	NOMINAL Ø (mm)	WEIGHT (g/m)
XT 2807 THSTX 2	XT 2807 TPC	0.70	0.102	85	1.90	2.20	8.00
XT 2619 THSTX 2	XT 2619 TPC	0.80	0.127	96	2.20	2.50	11.60
XT 2419 THSTX 2	XT 2419 TPC	0.95	0.127	93	2.50	2.80	15.80
XT 2237 THSTX 2	XT 2237 TPC	1.10	0.127	88	2.80	3.10	19.30
XT 2037 THSTX 2	XT 2037 TPC	1.30	0.127	93	3.20	3.55	28.50

TPC : TIN PLATED ANNEALED COPPER - LSZH : LOW SMOKE ZERO HALOGEN

Shielded jacketed twisted triples

TYPE XT xxxx THSTX3 TPC

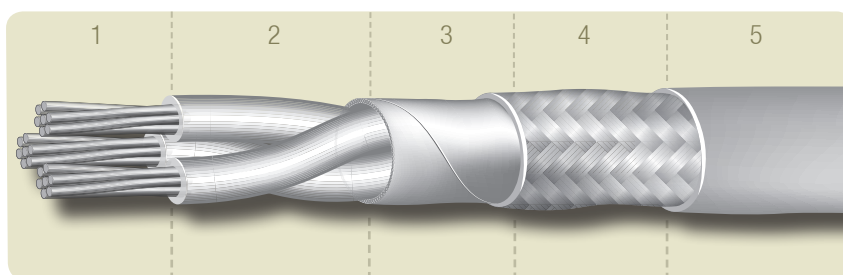
Insulation : POLIAX halogen free / LSZH

Operating temperature : -40°C up to +130°C

Voltage rating : 250 VAC

Radiation resistance : 3 MGy (300 Mrad) in standard atmosphere,
6 MGy (600 Mrad) in inert atmosphere.

Outer jacket colour : white. Other colours upon request.



Construction

PRIMARY WIRE

- 1 - Conductor : tin plated annealed copper (TPC)
- 2 - Insulation : POLIAX

TAPE

- 3 - Polyimide separating tape

SHIELDING

- 4 - Braided shield : tin plated annealed copper (TPC)

OUTER JACKET

- 5 - POLIAX

Main characteristics

Pairs, triples and quads as well as shielded cables jacketed with ASC3-55J or other insulation materials will be studied according to the customers requirements.

Other constructions on request.

AXON' REFERENCE	PRIMARY WIRE		SHIELDING			CABLE	
	REFERENCE	Ø (mm)	SHIELDING WIRE Ø (mm)	COVERAGE (%)	SHIELDING Ø (mm)	NOMINAL Ø (mm)	WEIGHT (g/m)
XT 2807 THSTX 3	XT 2807 TPC	0.70	0.102	90	2.00	2.30	10.40
XT 2619 THSTX 3	XT 2619 TPC	0.80	0.127	93	2.30	2.60	15.50
XT 2419 THSTX 3	XT 2419 TPC	0.95	0.127	87	2.65	3.00	19.10
XT 2237 THSTX 3	XT 2237 TPC	1.10	0.127	90	2.95	3.30	25.80
XT 2037 THSTX 3	XT 2037 TPC	1.30	0.127	92	3.40	3.80	35.30

TPC : TIN PLATED ANNEALED COPPER - LSZH : LOW SMOKE ZERO HALOGEN

Single wires

TYPE X xxxx TPC

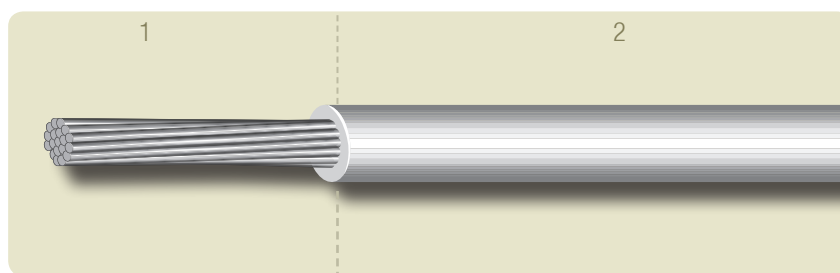
Insulation : POLIAX halogen free / LSZH

Operating temperature : -40°C up to +130°C

Voltage rating : 600 VAC

Radiation resistance : 3 MGy (300 Mrad) in standard atmosphere,
6 MGy (600 Mrad) in inert atmosphere

Colours : according to the customers requirements



Construction

PRIMARY WIRE

1 - Conductor : tin plated annealed copper (TPC)

2 - Insulation : POLIAX

Main characteristics

Pairs, triples and quads as well as shielded cables jacketed with ASC3-55J or other insulation materials will be studied according to the customers requirements

Other constructions on request.

AXON' REFERENCE	AWG	CONDUCTOR				INSULATED WIRE	
		CONSTRUCTION (Nb x Ø mm)	Ø (mm)	AREA (mm ²)	MAXIMUM RESISTANCE (Ω/ 100m)	NOMINAL Ø (mm)	WEIGHT (g/m)
X 2807 TPC	28	7 x 0.127	0.38	0.0886	20.8	0.85	1.40
X 2619 TPC	26	19 x 0.102	0.48	0.154	12.87	0.95	2.00
X 2419 TPC	24	19 x 0.127	0.60	0.24	7.66	1.05	2.80
X 2237 TPC	22	37 x 0.114	0.78	0.38	5.08	1.20	4.40
X 2037 TPC	20	37 x 0.142	0.97	0.59	3.37	1.50	6.70
X 1861 TPC	18	61 x 0.142	1.24	0.97	2.05	1.80	10.60
X 1661 TPC	16	61 x 0.160	1.45	1.23	1.56	2.00	13.10
X 1461 TPC	14	61 x 0.203	1.75	1.91	1.04	2.35	20.80
X 1291 TPC	12	91 x 0.203	2.15	2.94	0.68	2.90	31.20
X 1091 TPC	10	91 x 0.254	2.70	4.46	0.43	3.55	47.60
X 8133 TPC	8	133 x 0.287	4.20	8.60	0.23	5.10	86.90

TPC : TIN PLATED ANNEALED COPPER - LSZH : LOW SMOKE ZERO HALOGEN

Shielded jacketed single core cables

TYPE X xxxx TSTX1 TPC

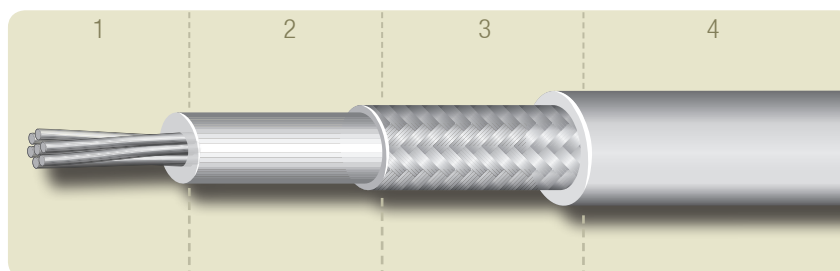
Insulation : POLIAX halogen free / LSZH

Operating temperature : -40°C up to +130°C

Voltage rating : 600 VAC

Radiation resistance : 3 MGy (300 Mrad) in standard atmosphere,
6 MGy (600 Mrad) in inert atmosphere

Outer jacket colour : white. Other colours upon request



Construction

PRIMARY WIRE

1 - Conductor : tin plated annealed copper (TPC)

2 - Insulation : POLIAX

SHIELDING

3 - Braided shield : tin plated annealed copper (TPC)

OUTER JACKET

4 - POLIAX

Main characteristics

Pairs, triples and quads as well as shielded cables jacketed with ASC3-55J or other insulation materials will be studied according to the customers requirements.

Other constructions on request.

AXON' REFERENCE	PRIMARY WIRE		SHIELDING			CABLE	
	REFERENCE	Ø (mm)	SHIELDING WIRE Ø (mm)	COVERAGE (%)	SHIELDING Ø (mm)	NOMINAL Ø (mm)	WEIGHT (g/m)
X 2807 TSTX 1	X 2807 TPC	0.85	0.102	98	1.40	1.60	6.30
X 2619 TSTX 1	X 2619 TPC	0.95	0.102	95	1.50	1.75	7.10
X 2419 TSTX 1	X 2419 TPC	1.05	0.102	92	1.60	1.85	8.00
X 2237 TSTX 1	X 2237 TPC	1.20	0.127	96	1.75	2.15	12.40
X 2037 TSTX 1	X 2037 TPC	1.50	0.127	97	2.05	2.40	16.60
X 1861 TSTX 1	X 1861 TPC	1.80	0.127	92	2.35	2.75	21.00
X 1661 TSTX 1	X 1661 TPC	2.00	0.127	96	2.55	2.95	26.80
X 1461 TSTX 1	X 1461 TPC	2.35	0.127	91	2.90	3.50	35.10
X 1291 TSTX 1	X 1291 TPC	2.90	0.127	90	3.45	3.90	47.10
X 1091 TSTX 1	X 1091 TPC	3.55	0.127	89	4.10	4.90	63.30
X 8133 TSTX 1	X 8133 TPC	5.10	0.127	91	5.65	6.55	119.40

TPC : TIN PLATED ANNEALED COPPER - LSZH : LOW SMOKE ZERO HALOGEN

Shielded jacketed twisted pairs

TYPE X xxxx TSTX2 TPC

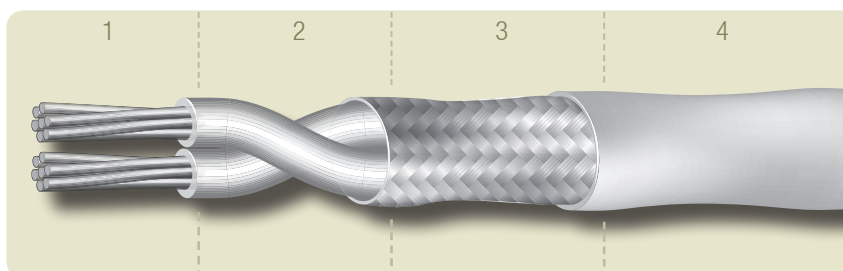
Insulation : POLIAX halogen free / LSZH

Operating temperature : -40°C up to +130°C

Voltage rating : 600 VAC

Radiation resistance : 3 MGy (300 Mrad) in standard atmosphere,
6 MGy (600 Mrad) in inert atmosphere

Outer jacket colour : white. Other colours upon request



Construction

PRIMARY WIRE

1 - Conductor : tin plated annealed copper (TPC)

2 - Insulation : POLIAX

SHIELDING

3 - Braided shield : tin plated annealed copper (TPC)

OUTER JACKET

4 - POLIAX

Main characteristics

Pairs, triples and quads as well as shielded cables jacketed with ASC3-55J or other insulation materials will be studied according to the customers requirements.

Other constructions on request.

AXON' REFERENCE	PRIMARY WIRE		SHIELDING			CABLE	
	REFERENCE	Ø (mm)	SHIELDING WIRE Ø (mm)	COVERAGE (%)	SHIELDING Ø (mm)	NOMINAL Ø (mm)	WEIGHT (g/m)
X 2807 TSTX 2	X 2807 TPC	0.85	0.127	95	2.25	2.60	13.20
X 2619 TSTX 2	X 2619 TPC	0.95	0.127	90	2.45	2.80	14.50
X 2419 TSTX 2	X 2419 TPC	1.05	0.127	86	2.65	3.00	18.50
X 2237 TSTX 2	X 2237 TPC	1.20	0.127	91	2.95	3.35	22.40
X 2037 TSTX 2	X 2037 TPC	1.50	0.127	90	3.55	4.00	29.60
X 1861 TSTX 2	X 1861 TPC	1.80	0.127	91	4.15	4.60	41.70
X 1661 TSTX 2	X 1661 TPC	2.00	0.127	86	4.55	5.00	49.10
X 1461 TSTX 2	X 1461 TPC	2.35	0.127	89	5.25	5.90	69.60
X 1291 TSTX 2	X 1291 TPC	2.90	0.127	89	6.35	7.00	96.80
X 1091 TSTX 2	X 1091 TPC	3.55	0.160	87	7.80	8.90	146.30
X 8133 TSTX 2	X 8133 TPC	5.10	0.160	93	10.90	12.30	261.20

TPC : TIN PLATED ANNEALED COPPER - LSZH : LOW SMOKE ZERO HALOGEN

Shielded jacketed twisted triples

TYPE X xxxx TSTX3 TPC

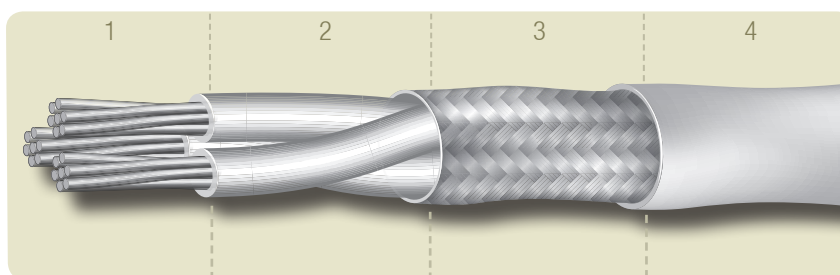
Insulation : POLIAX halogen free / LSZH

Operating temperature : -40°C up to +130°C

Voltage rating : 600 VAC

Radiation resistance : 3 MGy (300 Mrad) in standard atmosphere,
6 MGy (600 Mrad) in inert atmosphere

Outer jacket colour : white. Other colours upon request



Construction

PRIMARY WIRE

1 - Conductor : tin plated annealed copper (TPC)

2 - Insulation : POLIAX

SHIELDING

3 - Braided shield : tin plated annealed copper (TPC)

OUTER JACKET

4 - POLIAX

Main characteristics

Pairs, triples and quads as well as shielded cables jacketed with ASC3-55J or other insulation materials will be studied according to the customers requirements.

Other constructions on request.

AXON' REFERENCE	PRIMARY WIRE		SHIELDING			CABLE	
	REFERENCE	Ø (mm)	SHIELDING WIRE Ø (mm)	COVERAGE (%)	SHIELDING Ø (mm)	NOMINAL Ø (mm)	WEIGHT (g/m)
X 2807 TSTX 3	X 2807 TPC	0.85	0.127	95	2.30	2.75	14.70
X 2619 TSTX 3	X 2619 TPC	0.95	0.127	90	2.50	3.00	19.00
X 2419 TSTX 3	X 2419 TPC	1.05	0.127	86	2.70	3.20	21.40
X 2237 TSTX 3	X 2237 TPC	1.20	0.127	91	3.15	3.60	29.40
X 2037 TSTX 3	X 2037 TPC	1.50	0.127	90	3.80	4.25	38.70
X 1861 TSTX 3	X 1861 TPC	1.80	0.127	91	4.40	4.95	54.90
X 1661 TSTX 3	X 1661 TPC	2.00	0.127	86	4.85	5.35	68.40
X 1461 TSTX 3	X 1461 TPC	2.35	0.127	89	5.60	6.25	93.60
X 1291 TSTX 3	X 1291 TPC	2.90	0.127	89	6.80	7.55	132.20
X 1091 TSTX 3	X 1091 TPC	3.55	0.160	87	8.35	9.55	208.00
X 8133 TSTX 3	X 8133 TPC	5.10	0.160	93	11.65	13.15	262.00

TPC : TIN PLATED ANNEALED COPPER - LSZH : LOW SMOKE ZERO HALOGEN

Single wires

TYPE QT xxxx SPC

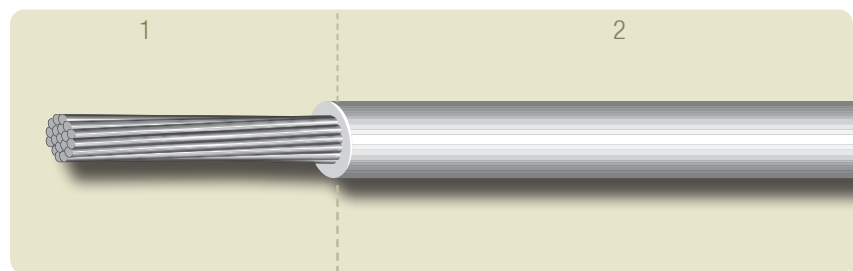
Insulation : NEUTRAX halogen free / LSZH

Operating temperature : -50°C up to +200°C

Voltage rating : 250 VAC

Radiation resistance : 5 MGy (500 Mrad) in standard atmosphere,
10 MGy (1000 Mrad) in inert atmosphere

Standard colour : natural (beige). Other colours upon request



Construction

PRIMARY WIRE

1 - Conductor : electrolytic silver plated annealed copper (SPC)

2 - Insulation : NEUTRAX

Other constructions on request.

AXON' REFERENCE	AWG	CONDUCTOR				INSULATED WIRE	
		CONSTRUCTION (Nb x Ø mm)	Ø (mm)	AREA (mm²)	NOMINAL RESISTANCE (Ω/100m)	NOMINAL Ø (mm)	WEIGHT (g/m)
QT 3007	30	7 x 0.102	0.304	0.057	31.1	0.62	1.1
QT 2819	28	19 x 0.079	0.395	0.093	19.3	0.7	1.75
QT 2807	28	7 x 0.127	0.381	0.088	20.1	0.7	1.5
QT 2619	26	19 x 0.102	0.504	0.154	11.6	0.82	2.2
QT 2607	26	7 x 0.160	0.48	0.141	12.6	0.8	2.0
QT 2419	24	19 x 0.127	0.634	0.239	7.5	0.95	3.15
QT 2407	24	7 x 0.203	0.609	0.228	7.9	0.93	3.0
QT 2219	22	19 x 0.160	0.80	0.382	4.7	1.13	4.6
QT 2207	22	7 x 0.254	0.762	0.354	5.0	1.1	4.4
QT 2019	20	19 x 0.203	1.009	0.616	2.9	1.33	7.0
QT 2007	20	7 x 0.320	0.96	0.565	3.2	1.25	6.3

SPC : SILVER PLATED ANNEALED COPPER - LSZH : LOW SMOKE ZERO HALOGEN

Single wires

TYPE Q xxxx SPC

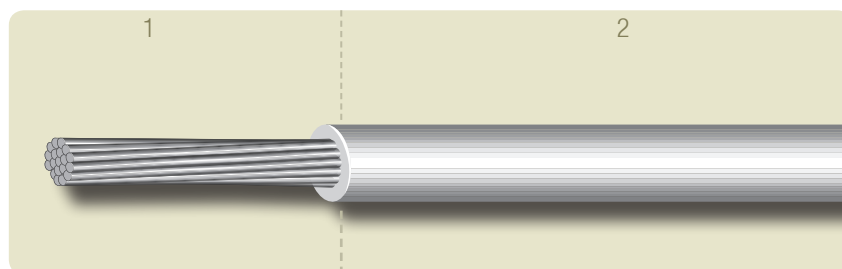
Insulation : NEUTRAX halogen free / LSZH

Operating temperature : -50°C up to +200°C

Voltage rating : 600 VAC

Radiation resistance : 5 MGy (500 Mrad) in standard atmosphere,
10 MGy (1000 Mrad) in inert atmosphere

Standard colour : natural (beige). Other colours upon request



Construction

PRIMARY WIRE

1 - Conductor : electrolytic silver plated annealed copper (SPC)

2 - Insulation : NEUTRAX

Other constructions on request.

AXON' REFERENCE	AWG	CONDUCTOR				INSULATED WIRE	
		CONSTRUCTION (Nb x Ø mm)	Ø (mm)	AREA (mm ²)	NOMINAL RESISTANCE (Ω/100m)	NOMINAL Ø (mm)	WEIGHT (g/m)
Q 3007	30	7 x 0.102	0.303	0.057	36.5	0.8	2.1
Q 2819	28	19 x 0.079	0.395	0.093	19.3	0.9	2.5
Q 2807	28	7 x 0.127	0.381	0.088	20.1	0.9	2.0
Q 2619	26	19 x 0.102	0.504	0.154	11.6	1.0	3.0
Q 2607	26	7 x 0.160	0.48	0.141	12.6	1.0	2.7
Q 2419	24	19 x 0.127	0.634	0.239	7.5	1.15	4.1
Q 2407	24	7 x 0.203	0.609	0.228	7.9	1.1	3.6
Q 2219	22	19 x 0.160	0.80	0.382	4.7	1.3	5.7
Q 2207	22	7 x 0.254	0.762	0.354	5.0	1.25	5.0
Q 2019	20	19 x 0.203	1.009	0.616	2.9	1.5	7.9
Q 2007	20	7 x 0.320	0.96	0.565	3.2	1.45	7.7
Q 1819	18	19 X 0.254	1.269	0.962	1.9	1.75	11.5
Q 1619	16	19 X 0.300	1.5	1.343	1.35	2.1	16.3
Q 1427	14	27 X 0.300	1.8	1.91	0.95	2.45	21.8
Q 1419	14	19 X 0.360	1.803	1.938	0.92	2.35	21.8
Q 1245	12	45 X 0.300	2.45	3.18	0.58	3.05	34.0
Q 1237	12	37 X 0.320	2.22	2.97	0.6	2.85	33.4
Q 1219	12	19 X 0.455	2.273	3.097	0.58	2.85	33.0
Q 1037	10	37 X 0.405	2.8	4.74	0.39	3.35	51.0

SPC : SILVER PLATED ANNEALED COPPER - LSZH : LOW SMOKE ZERO HALOGEN

Single wires

TYPE FHT xxxx SPC or SCA

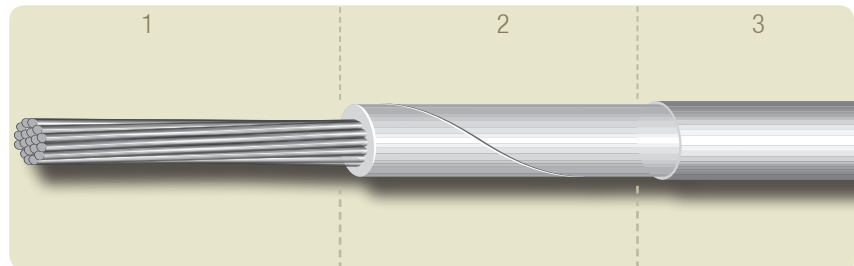
Insulation : POLYIMIDE tape halogen free / LSZH

Operating temperature : -100°C up to +200°C

Voltage rating : 250 VAC

Radiation resistance : 10 MGy (1000 Mrad) in standard atmosphere,
50 MGy (5000 Mrad) in inert atmosphere

Standard colour : natural (amber). Other colours upon request



Construction

PRIMARY WIRE

- 1 - Conductor : electrolytic silver plated annealed copper (SPC) or silver plated copper alloy (SCA)
- 2 - Insulation : wrapped Polyimide tape
- 3 - Insulation : Polyimide coating

Other constructions on request

AXON' REFERENCE	AWG	CONDUCTOR				INSULATED WIRE	
		CONSTRUCTION (Nb x Ø mm)	Ø (mm)	AREA (mm²)	NOMINAL RESISTANCE (Ω/ 100m)	NOMINAL Ø (mm)	WEIGHT (g/m)
FHT 3007 SCA	30	7 x 0.102	0.304	0.057	37	0.53	0.76
FHT 3001 SCA	30	1 x 0.254	0.254	0.051	39	0.48	0.69
FHT 2807 SCA	28	7 x 0.127	0.381	0.089	23	0.61	1.11
FHT 2801 SCA	28	1 x 0.320	0.320	0.080	26	0.55	1.00
FHT 2619	26	19 x 0.102	0.504	0.16	12	0.74	1.79
FHT 2601	26	1 x 0.404	0.404	0.13	13	0.63	1.49
FHT 2419	24	19 x 0.127	0.634	0.24	7.6	0.86	2.65
FHT 2401	24	1 x 0.511	0.511	0.20	8.4	0.74	2.26
FHT 2219	22	19 x 0.160	0.800	0.38	4.7	1.03	4.73
FHT 2201	22	1 x 0.643	0.643	0.32	5.3	0.87	3.41
FHT 2019	20	19 x 0.203	1.009	0.616	3.2	1.24	6.26
FHT 2001	20	1 x 0.812	0.812	0.52	3.3	1.04	5.30
FHT 1819	18	19 x 0.254	1.269	0.96	2.1	1.50	9.63
FHT 1619	16	19 X 0.300	1.500	1.34	1.4	1.73	12.30

SPC : SILVER PLATED ANNEALED COPPER - SCA : SILVER COPPER ALLOY - LSZH : LOW SMOKE ZERO HALOGEN

Single wires

TYPE FH xxxx SPC or SCA

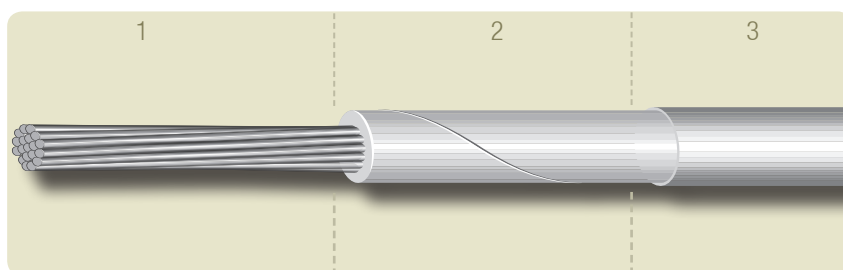
Insulation : POLYIMIDE tape halogen free / LSZH

Operating temperature : -100°C up to +200°C

Voltage rating : 600 VAC

Radiation resistance : 10 MGy (1000 Mrad) in standard atmosphere,
50 MGy (5000 Mrad) in inert atmosphere

Standard colour : natural (amber). Other colours upon request



Construction

PRIMARY WIRE

- 1 - Conductor : electrolytic silver plated annealed copper (SPC) or silver plated copper alloy (SCA)
- 2 - Insulation : wrapped Polyimide tape
- 3 - Insulation : Polyimide coating

Other constructions on request.

AXON' REFERENCE	AWG	CONDUCTOR				INSULATED WIRE	
		CONSTRUCTION (Nb x Ø mm)	Ø (mm)	AREA (mm ²)	NOMINAL RESISTANCE (Ω/100m)	NOMINAL Ø (mm)	WEIGHT (g/m)
FH 3007 SCA	30	7 x 0.102	0.303	0.057	37	0.60	0.88
FH 3001 SCA	30	1 x 0.254	0.254	0.051	39	0.55	0.78
FH 2807 SCA	28	7 x 0.127	0.381	0.089	23	0.68	1.24
FH 2801 SCA	28	1 x 0.320	0.320	0.080	26	0.62	1.11
FH 2619	26	19 x 0.102	0.504	0.16	12	0.81	1.94
FH 2601	26	1 x 0.404	0.404	0.13	13	0.70	1.62
FH 2419	24	19 x 0.127	0.634	0.24	7.6	0.93	2.82
FH 2401	24	1 x 0.511	0.511	0.20	8.4	0.81	2.42
FH 2219	22	19 x 0.160	0.800	0.38	4.7	1.10	4.14
FH 2201	22	1 x 0.643	0.643	0.32	5.3	0.94	3.58
FH 2019	20	19 x 0.203	1.009	0.61	3.2	1.31	6.51
FH 2001	20	1 x 0.812	0.812	0.52	3.3	1.11	5.50
FH 1819	18	19 x 0.254	1.269	0.96	2.1	1.57	9.92
FH 1619	16	19 x 0.300	1.500	1.34	1.4	1.80	12.60
FH 1419	14	19 x 0.361	1.805	1.94	0.95	2.15	19.80

SPC : SILVER PLATED ANNEALED COPPER - SCA : SILVER COPPER ALLOY - LSZH : LOW SMOKE ZERO HALOGEN

Single wires

TYPE FHT xxxx NPC or NCA

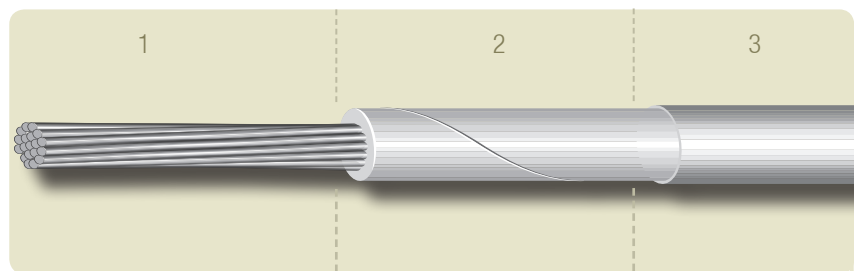
Insulation : POLYIMIDE tape halogen free / LSZH

Operating temperature : -100°C up to +250°C

Voltage rating : 250 VAC

Radiation resistance : 10 MGy (1000 Mrad) in standard atmosphere,
50 MGy (5000 Mrad) in inert atmosphere

Standard colour : natural (amber). Other colours upon request



Construction

PRIMARY WIRE

- 1 - Conductor : nickel plated annealed copper (NPC) or nickel plated copper alloy (NCA)
- 2 - Insulation : wrapped Polyimide tape
- 3 - Insulation : Polyimide coating

Other constructions on request.

AXON' REFERENCE	AWG	CONDUCTOR				INSULATED WIRE	
		CONSTRUCTION (Nb x Ø mm)	Ø (mm)	AREA (mm ²)	NOMINAL RESISTANCE (Ω/ 100m)	NOMINAL Ø (mm)	WEIGHT (g/m)
FHT 3007 NCA	30	7 x 0.102	0.304	0.057	37	0.53	0.76
FHT 3001 NCA	30	1 x 0.254	0.254	0.051	39	0.48	0.69
FHT 2807 NCA	28	7 x 0.127	0.381	0.089	23	0.61	1.11
FHT 2801 NCA	28	1 x 0.320	0.320	0.080	26	0.55	1.00
FHT 2619 NPC	26	19 x 0.102	0.504	0.16	12	0.74	1.79
FHT 2601 NPC	26	1 x 0.404	0.404	0.13	13	0.63	1.49
FHT 2419 NPC	24	19 x 0.127	0.634	0.24	7.6	0.86	2.65
FHT 2401 NPC	24	1 x 0.511	0.511	0.20	8.4	0.74	2.26
FHT 2219 NPC	22	19 x 0.160	0.800	0.38	4.7	1.03	4.73
FHT 2201 NPC	22	1 x 0.643	0.643	0.32	5.3	0.87	3.41
FHT 2019 NPC	20	19 x 0.203	1.009	0.616	3.2	1.24	6.26
FHT 2001 NPC	20	1 x 0.812	0.812	0.52	3.3	1.04	5.30
FHT 1819 NPC	18	19 x 0.254	1.269	0.96	2.1	1.50	9.63
FHT 1619 NPC	16	19 X 0.300	1.500	1.34	1.4	1.73	12.30

NPC : NICKEL PLATED ANNEALED COPPER - NCA : NICKEL COPPER ALLOY - LSZH : LOW SMOKE ZERO HALOGEN

Single wires

TYPE FH xxxx NPC or NCA

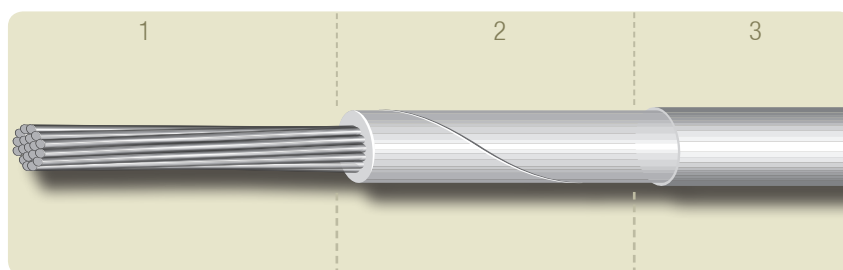
Insulation : POLYIMIDE tape halogen free / LSZH

Operating temperature : -100°C up to +250°C

Voltage rating : 600 VAC

Radiation resistance : 10 MGy (1000 Mrad) in standard atmosphere,
50 MGy (5000 Mrad) in inert atmosphere

Standard colour : natural (amber). Other colours upon request



Construction

PRIMARY WIRE

- 1 - Conductor : nickel plated annealed copper (NPC) or nickel plated copper alloy (NCA)
- 2 - Insulation : wrapped Polyimide tape
- 3 - Insulation : Polyimide coating

Other constructions on request.

AXON' REFERENCE	AWG	CONDUCTOR				INSULATED WIRE	
		CONSTRUCTION (Nb x Ø mm)	Ø (mm)	AREA (mm ²)	NOMINAL RESISTANCE (Ω/ 100m)	NOMINAL Ø (mm)	WEIGHT (g/m)
FH 3007 NCA	30	7 x 0.102	0.303	0.057	37	0.60	0.88
FH 3001 NCA	30	1 x 0.254	0.254	0.051	39	0.55	0.78
FH 2807 NCA	28	7 x 0.127	0.381	0.089	23	0.68	1.24
FH 2801 NCA	28	1 x 0.320	0.320	0.080	26	0.62	1.11
FH 2619 NPC	26	19 x 0.102	0.504	0.16	12	0.81	1.94
FH 2601 NPC	26	1 x 0.404	0.404	0.13	13	0.70	1.62
FH 2419 NPC	24	19 x 0.127	0.634	0.24	7.6	0.93	2.82
FH 2401 NPC	24	1 x 0.511	0.511	0.20	8.4	0.81	2.42
FH 2219 NPC	22	19 x 0.160	0.800	0.38	4.7	1.10	4.14
FH 2201 NPC	22	1 x 0.643	0.643	0.32	5.3	0.94	3.58
FH 2019 NPC	20	19 x 0.203	1.009	0.61	3.2	1.31	6.51
FH 2001 NPC	20	1 x 0.812	0.812	0.52	3.3	1.11	5.50
FH 1819 NPC	18	19 x 0.254	1.269	0.96	2.1	1.57	9.92
FH 1619 NPC	16	19 x 0.300	1.500	1.34	1.4	1.80	12.60
FH 1419 NPC	14	19 x 0.361	1.805	1.94	0.95	2.15	19.80

NPC : NICKEL PLATED ANNEALED COPPER - NCA : NICKEL PLATED COPPER ALLOY - LSZH : LOW SMOKE ZERO HALOGEN

Single wires

TYPE AT xxxx SPC or SCA

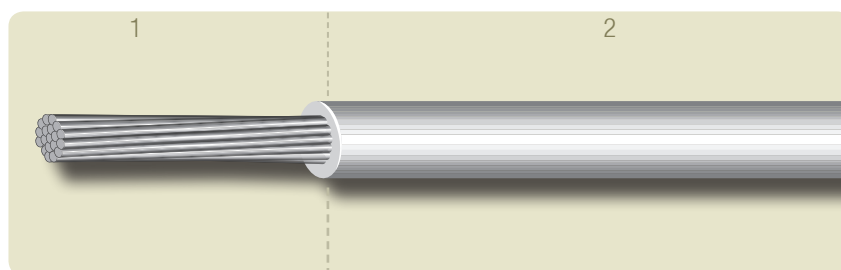
Insulation : Extruded POLYIMIDE (TPI) halogen free / LSZH

Operating temperature : -200°C up to +200°C

Voltage rating : 250 V_{AC}

Radiation resistance : 20 MGy (2000 Mrad) in standard atmosphere,
70 MGy (7000 Mrad) in inert atmosphere

Standard colour : natural (amber)



Construction

PRIMARY WIRE

- 1 - Conductor : electrolytic silver plated annealed copper (SPC)
or silver plated copper alloy (SCA)
- 2 - Insulation : extruded Polyimide (TPI)

Other constructions on request.

AXON' REFERENCE	AWG	CONDUCTOR				INSULATED WIRE	
		CONSTRUCTION (Nb x Ø mm)	Ø (mm)	AREA (mm ²)	NOMINAL RESISTANCE (Ω/ 100m)	NOMINAL Ø (mm)	WEIGHT (g/m)
AT 3007 SCA	30	7 x 0.102	0.304	0.057	37	0.62	0.84
AT 3001 SCA	30	1 x 0.254	0.254	0.051	39	0.56	0.72
AT 2807 SCA	28	7 x 0.127	0.381	0.089	23	0.70	1.20
AT 2801 SCA	28	1 x 0.320	0.320	0.080	26	0.65	1.10
AT 2619	26	19 x 0.102	0.504	0.16	12	0.82	2.00
AT 2601	26	1 x 0.404	0.404	0.13	13	0.72	1.50
AT 2419	24	19 x 0.127	0.634	0.24	7.6	0.95	2.80
AT 2401	24	1 x 0.511	0.511	0.20	8.4	0.83	2.30
AT 2219	22	19 x 0.160	0.800	0.38	4.7	1.13	4.20
AT 2201	22	1 x 0.643	0.643	0.32	5.3	0.95	4.00
AT 2019	20	19 x 0.203	1.009	0.616	3.2	1.33	6.50
AT 2001	20	1 x 0.812	0.812	0.52	3.3	1.13	5.30
AT 1819	18	19 x 0.254	1.269	0.96	2.1	1.61	10.00
AT 1619	16	19 X 0.300	1.500	1.34	1.4	1.87	14.00

SPC : SILVER PLATED ANNEALED COPPER - SCA : SILVER PLATED COPPER ALLOY - LSZH : LOW SMOKE ZERO HALOGEN

Single wires

TYPE A xxxx SPC or SCA

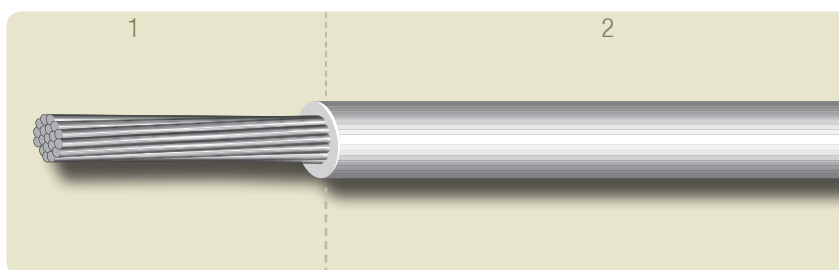
Insulation : extruded POLYIMIDE (TPI) halogen free / LSZH

Operating temperature : -200°C up to +200°C

Voltage rating : 600 V_{AC}

Radiation resistance : 20 MGy (2000 Mrad) in standard atmosphere,
70 MGy (7000 Mrad) in inert atmosphere

Standard colour : natural (amber)



Construction

PRIMARY WIRE

- 1 - Conductor : electrolytic silver plated annealed copper (SPC)
or silver plated copper alloy (SCA)
- 2 - Insulation : extruded Polyimide (TPI)

Other constructions on request.

AXON' REFERENCE	AWG	CONDUCTOR				INSULATED WIRE	
		CONSTRUCTION (Nb x Ø mm)	Ø (mm)	AREA (mm ²)	NOMINAL RESISTANCE (Ω/ 100m)	NOMINAL Ø (mm)	WEIGHT (g/m)
A 3007 SCA	30	7 x 0.102	0.303	0.057	37	0.80	1.10
A 3001 SCA	30	1 x 0.254	0.254	0.051	39	0.76	1.00
A 2807 SCA	28	7 x 0.127	0.381	0.089	23	0.90	1.50
A 2801 SCA	28	1 x 0.320	0.320	0.080	26	0.82	1.30
A 2619	26	19 x 0.102	0.504	0.16	12	1.00	2.20
A 2601	26	1 x 0.404	0.404	0.13	13	0.90	1.80
A 2419	24	19 x 0.127	0.634	0.24	7.6	1.15	3.20
A 2401	24	1 x 0.511	0.511	0.20	8.4	1.05	2.70
A 2219	22	19 x 0.160	0.800	0.38	4.7	1.30	4.60
A 2201	22	1 x 0.643	0.643	0.32	5.3	1.15	3.40
A 2019	20	19 x 0.203	1.009	0.61	3.2	1.50	7.00
A 2001	20	1 x 0.812	0.812	0.52	3.3	1.30	5.70
A 1819	18	19 x 0.254	1.269	0.96	2.1	1.75	10.40
A 1619	16	19 x 0.300	1.500	1.34	1.4	2.10	14.80
A 1419	14	19 x 0.361	1.805	1.94	0.95	2.35	20.40
A 1237	12	37 x 0.320	2.22	2.98	0.60	2.85	31.20

SPC : SILVER PLATED ANNEALED COPPER - SCA : SILVER COPPER ALLOY - LSZH : LOW SMOKE ZERO HALOGEN

Single wires

TYPE AT xxxx NPC or NCA

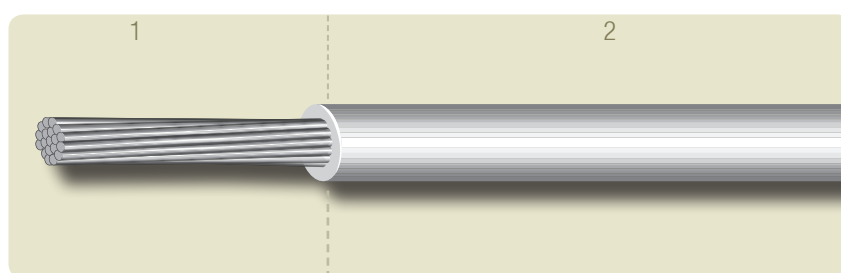
Insulation : extruded POLYIMIDE (TPI) halogen free / LSZH

Operating temperature : -200°C up to +240°C

Voltage rating : 250 V_{AC}

Radiation resistance : 20 MGy (2000 Mrad) in standard atmosphere,
70 MGy (7000 Mrad) in inert atmosphere

Standard colour : natural (amber)



Construction

PRIMARY WIRE

1 - Conductor : nickel plated annealed copper (NPC)

or nickel plated copper alloy (NCA)

2 - Insulation : extruded Polyimide (TPI)

Other constructions on request.

AXON' REFERENCE	AWG	CONDUCTOR				INSULATED WIRE	
		CONSTRUCTION (Nb x Ø mm)	Ø (mm)	AREA (mm ²)	NOMINAL RESISTANCE (Ω/100m)	NOMINAL Ø (mm)	WEIGHT (g/m)
AT 3007 NCA	30	7 x 0.102	0.304	0.057	37	0.62	0.84
AT 3001 NCA	30	1 x 0.254	0.254	0.051	39	0.56	0.72
AT 2807 NCA	28	7 x 0.127	0.381	0.089	23	0.70	1.20
AT 2801 NCA	28	1 x 0.320	0.320	0.080	26	0.65	1.10
AT 2619 NPC	26	19 x 0.102	0.504	0.16	12	0.82	2.00
AT 2601 NPC	26	1 x 0.404	0.404	0.13	13	0.72	1.50
AT 2419 NPC	24	19 x 0.127	0.634	0.24	7.6	0.95	2.80
AT 2401 NPC	24	1 x 0.511	0.511	0.20	8.4	0.83	2.30
AT 2219 NPC	22	19 x 0.160	0.800	0.38	4.7	1.13	4.20
AT 2201 NPC	22	1 x 0.643	0.643	0.32	5.3	0.95	4.00
AT 2019 NPC	20	19 x 0.203	1.009	0.616	3.2	1.33	6.50
AT 2001 NPC	20	1 x 0.812	0.812	0.52	3.3	1.13	5.30
AT 1819 NPC	18	19 x 0.254	1.269	0.96	2.1	1.61	10.00
AT 1619 NPC	16	19 X 0.300	1.500	1.34	1.4	1.87	14.00

NPC : NICKEL PLATED ANNEALED COPPER - NCA : NICKEL PLATED COPPER ALLOY - LSZH : LOW SMOKE ZERO HALOGEN

Single wires

TYPE A xxxx NPC or NCA

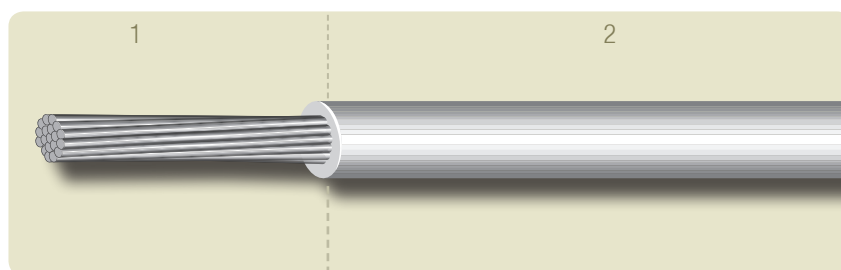
Insulation : extruded POLYIMIDE (TPI) halogen free / LSZH

Operating temperature : -200°C up to +240°C

Voltage rating : 600 V_{AC}

Radiation resistance : 20 MGy (2000 Mrad) in standard atmosphere,
70 MGy (7000 Mrad) in inert atmosphere

Standard colour : natural (amber)



Construction

PRIMARY WIRE

1 - Conductor : nickel plated annealed copper (NPC)

or nickel plated copper alloy (NCA)

2 - Insulation : extruded Polyimide (TPI)

Other constructions on request.

AXON' REFERENCE	AWG	CONDUCTOR				INSULATED WIRE	
		CONSTRUCTION (Nb x Ø mm)	Ø (mm)	AREA (mm ²)	NOMINAL RESISTANCE (Ω/ 100m)	NOMINAL Ø (mm)	WEIGHT (g/m)
A 3007 NCA	30	7 x 0.102	0.303	0.057	37	0.80	1.10
A 3001 NCA	30	1 x 0.254	0.254	0.051	39	0.76	1.00
A 2807 NCA	28	7 x 0.127	0.381	0.089	23	0.90	1.50
A 2801 NCA	28	1 x 0.320	0.320	0.080	26	0.82	1.30
A 2619 NPC	26	19 x 0.102	0.504	0.16	12	1.00	2.20
A 2601 NPC	26	1 x 0.404	0.404	0.13	13	0.90	1.80
A 2419 NPC	24	19 x 0.127	0.634	0.24	7.6	1.15	3.20
A 2401 NPC	24	1 x 0.511	0.511	0.20	8.4	1.05	2.70
A 2219 NPC	22	19 x 0.160	0.800	0.38	4.7	1.30	4.60
A 2201 NPC	22	1 x 0.643	0.643	0.32	5.3	1.15	3.40
A 2019 NPC	20	19 x 0.203	1.009	0.61	3.2	1.50	7.00
A 2001 NPC	20	1 x 0.812	0.812	0.52	3.3	1.30	5.70
A 1819 NPC	18	19 x 0.254	1.269	0.96	2.1	1.75	10.40
A 1619 NPC	16	19 x 0.300	1.500	1.34	1.4	2.10	14.80
A 1419 NPC	14	19 x 0.361	1.805	1.94	0.95	2.35	20.40
A 1237 NPC	12	37 x 0.320	2.22	2.98	0.60	2.85	31.20

NPC : NICKEL PLATED ANNEALED COPPER - NCA: NICKEL PLATED COPPER ALLOY - LSZH : LOW SMOKE ZERO HALOGEN

Composite cable

EXAMPLE OF A Z_T OPTIMIZED COMPOSITE CABLE

As a specialist in composite cables, AXON' offer custom designed constructions. Please contact us

TYPE XZT 19x0.59 / AWG 20 LSZH

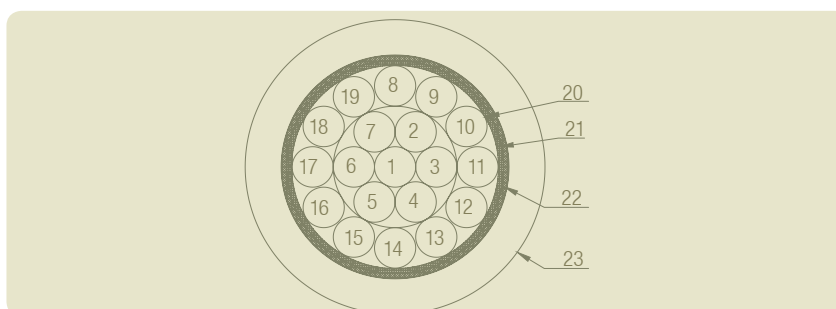
Z_T OPTIMIZED

Insulation : ASC3 - 55J

Operating temperature : -40°C up to +70°C

Voltage rating : 600 VAC

Standard colour : black.



Example of construction

1 TO 19 - SINGLE WIRES

AWG 20 / X 2037 TPC.
Conductor : tin plated copper.
Construction : 37 x 0.142 mm.
Diameter : 0.97 mm.
Area : 0.59 mm².
Resistance : 3.5 Ω/ 100 m.
Insulation : POLIAX.
Diameter : 1.50 mm.

20 - POLYESTER SEPARATING TAPE

21 & 22 - SHIELDING
tin plated copper double braid,
Z_T optimized. (see table below).

23 - BLACK ASC3-55J JACKET
LSZH thermoplastic elastomer.

Main characteristics

DIMENSIONS AND WEIGHT

- Diameter on assembled wires : 7.50 mm.
- Diameter on shielding : 9.00 mm.
- Diameter on outer jacket : 10.70 ± 0.50 mm.
- Nominal cable weight : 275 g/m.

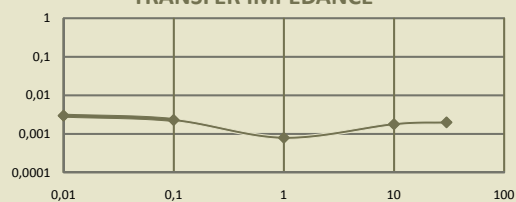
MECHANICAL CHARACTERISTICS

- Allowable traction : 80 daN.
- Minimum bend radius : 110 mm.

BEHAVIOUR TO FIRE

- a-Reaction to fire : category A according to IEC 60332-3.
- b-Opacity of fumes : test passed according to IEC 61034-2.
- c-Toxicity of gas emitted during the combustion process : conventional index of the toxicity < 10.
- d-Corrosivity of fumes : test according to IEC 60754-2 passed.

TRANSFER IMPEDANCE



FREQUENCY
MHz

TRANSFER IMPEDANCE
Ω/ m

0.01	0.003
0.1	0.0023
1	0.0008
10	0.0018
30	0.002

Composite cable

EXAMPLE OF A Z_T OPTIMIZED COMPOSITE CABLE

As a specialist in composite cables, AXON' offer custom designed constructions. Please contact us

TYPE XZT 19x2.94 / AWG 12 LSZH

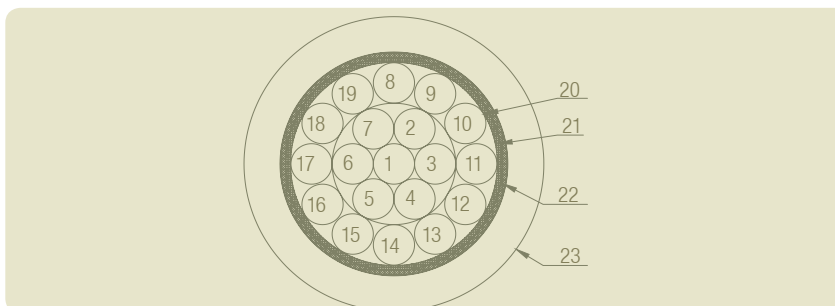
Z_T OPTIMIZED

Insulation : ASC3 - 55J

Operating temperature : -40°C up to +70°C

Voltage rating : 600 VAC

Standard colour : black.



Example of construction

1 TO 19 - SINGLE WIRES

AWG 12 / X 1291 TPC.
Conductor : tin plated copper.
Construction : 91 x 0.203 mm.
Diameter : 2.15 mm.
Area : 2.94 mm².
Resistance : 0.7 Ω/ 100 m.
Insulation : POLIAX.
Diameter : 2.90 mm.

20 - POLYESTER SEPARATING TAPE

21 & 22 - SHIELDING
tin plated copper double braid,
Z_T optimized. (see table below).

23 - BLACK ASC3-55J JACKET
LSZH thermoplastic elastomer.

Main characteristics

DIMENSIONS AND WEIGHT

- Diameter on assembled wires : 14.50 mm.
- Diameter on shielding : 16.00 mm.
- Diameter on outer jacket : 18.40 ± 0.90 mm.
- Nominal cable weight : 880 g/m.

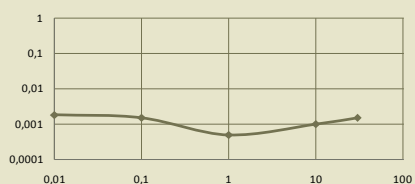
MECHANICAL CHARACTERISTICS

- Allowable traction : 160 daN.
- Minimum bend radius : 110 mm.

BEHAVIOUR TO FIRE

- a-Reaction to fire : category A according to IEC 60332-3.
- b-Opacity of fumes : test passed according to IEC 61034-2.
- c-Toxicity of gas emitted during the combustion process : conventional index of the toxicity < 10.
- d-Corrosivity of fumes : test passed according to IEC 60754- 2.

TRANSFER IMPEDANCE



FREQUENCY

MHz

TRANSFER IMPEDANCE

Ω/ m

0.01

0.0018

0.1

0.0015

1

0.0005

10

0.001

30

0.0015

Composite cable

TYPE XZT 30 PBLGO.38 / AWG 22

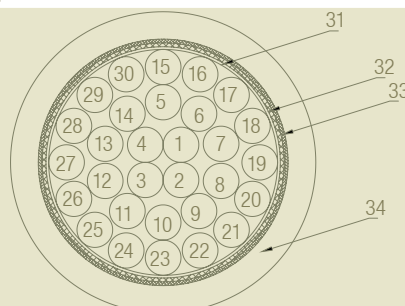
LSZH - Z_T OPTIMIZED

Insulation : ASC3 - 55J

Operating temperature : -40°C up to +70°C

Voltage rating : 600 V_{AC}

Standard colour : black.



Example of construction

1 TO 30 - 30 SHIELDED JACKETED TWISTED PAIRS

AWG 22 / X 2237TSTX2.
Single wire
Conductor : tin plated copper.
Construction : 37 x 0.114 mm.
Diameter : 0.78 mm.
Area : 0.38 mm².
Resistance : 5.93 Ω/ 100 m.
Insulation : POLIAX
Diameter : 1.20 mm.
Shielding : tin plated copper.
Outer jacket : POLIAX
Diameter : 3.35 mm

31 - POLYESTER SEPARATING TAPE

32 & 33 - SHIELDING
tin plated copper double braid,
Z_T optimized. (see table below).

34 - BLACK ASC3-55J JACKET LSZH thermoplastic elastomer.

Main characteristics

DIMENSIONS AND WEIGHT

- Diameter on assembled wires : 21.50 mm.
- Diameter on shielding : 23.00 mm.
- Diameter on outer jacket : 26.20 ± 1.30mm.
- Nominal cable weight : 1160 g/m.

ELECTRICAL CHARACTERISTICS

Impedance between the pair wires : 50 Ω.
Impedance between the pair wires and the shielding of the pairs : 30 Ω.
Capacity between the pair wires : 130 pF/m.
Capacity between the pair wires and the shielding of the pair : 210 pF/m.

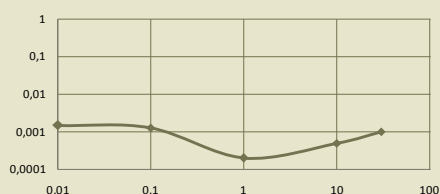
MECHANICAL CHARACTERISTICS

- Allowable traction : 180 daN.
- Minimum bend radius : 265 mm.

BEHAVIOUR TO FIRE

- a-Reaction to fire : category A according to IEC 60332-3.
- b-Opacity of fumes : test passed according to IEC 61034-2.
- c-Toxicity of gas emitted during the combustion process : conventional index of the toxicity < 10.
- d-Corrosivity of fumes : test passed according to IEC 60754- 2 .

TRANSFER IMPEDANCE



FREQUENCY
MHz

TRANSFER IMPEDANCE
Ω/ m

0.01	0.0015
0.1	0.0013
1	0.0002
10	0.0005
30	0.001

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