



# Low Smoke Halogen Free cables

High temperature POLIAX-HT  
thermoplastic wires

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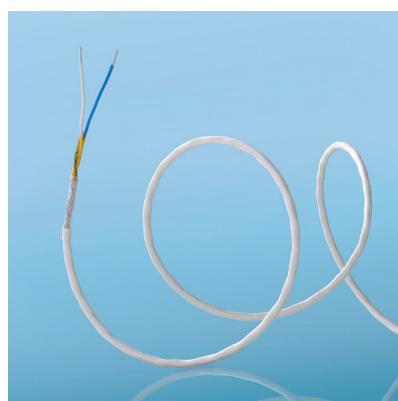
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SINGLE CORE HALOGEN FREE CABLE



TWISTED PAIR HALOGEN FREE CABLE

# Low Smoke Halogen Free products

## HIGH TEMPERATURE POLIAX-HT LSZH THERMOPLASTIC INSULATED WIRES

SINGLE WIRES, 250 V<sub>AC</sub>,  
XBT xxxx TPC ..... 9

SHIELDED & JACKETED WIRES, 250 V<sub>AC</sub>,  
XBT xxxx TSTXB 1 TPC ..... 10  
XBT xxxx THSTXB 2 TPC ..... 11  
XBT xxxx THSTXB 3 TPC ..... 12

SINGLE WIRES, 600 V<sub>AC</sub>,  
XB xxxx TPC ..... 13

SHIELDED & JACKETED WIRES, 600 V<sub>AC</sub>,  
XB xxxx TSTXB 1 TPC ..... 14  
XB xxxx TSTXB 2 TPC ..... 15  
XB xxxx TSTXB 3 TPC ..... 16



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,  
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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.**



HALOGEN FREE CABLES

## 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/ LS0H	Low Smoke Zero Halogen
HFFR	Halogen Free Flame Retardant
ZH/OH	Zero Halogen
LSF	Low Smoke Fume

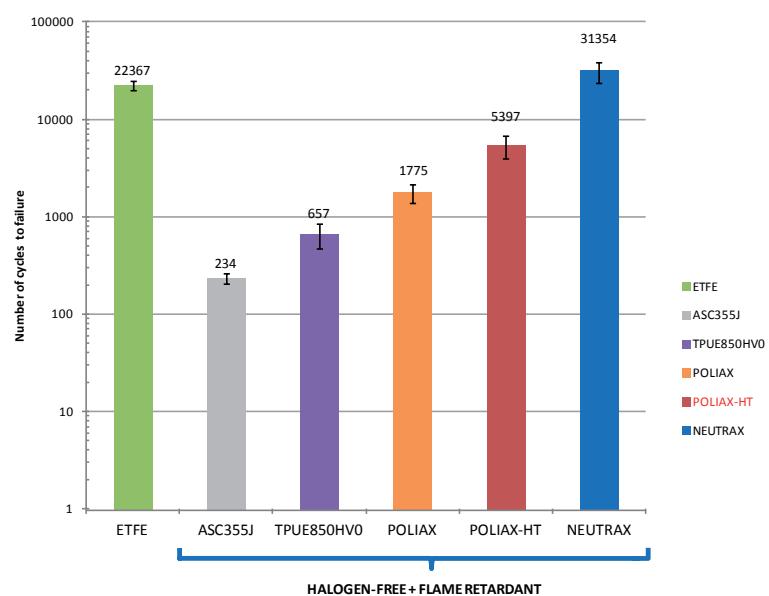
## POLIAX-HT General properties

- High Temperature Low Smoke Halogen Free (LSHF/ HFFR) insulation and jacketing solution.
- Higher thermal, abrasion, and cut-through resistance compared to POLIAX at cost of some flexibility.
- Still up to 2-3 times more flexible compared to PEEK or Polyimides-type solutions.
- POLIAX-HT flexibility is similar to ETFE with a 30% lower density (low mass solution).
- Operating Temperature: -40°C +150°C.

TYPICAL PROPERTIES	METHOD			VALUE
SPECIFIC GRAVITY		ISO 1183	g/ cm <sup>3</sup>	1.19
HARDNESS		ISO 868	shore D	72
ABRASION	internal	0.25 mm - 260 g	at 25°C - cycles	5000
			at 100°C - cycles	900
			at 150°C - cycles	700
CUT TROUGH	internal	0.25mm 1mm/ min	N	400
TEAR STRENGTH		ISO 34	N/mm	13
IZOD NOTCHED		ISO 180	at 23°C kJ/ m <sup>2</sup>	36
COLD BEND TEST	internal	ESCC 3901	Ø x 10, 450 g -80°C	*PASS
HEAT AGEING**	internal	IEC 60216 -50% elongation	hours at 170°C	5000
**Long term ageing tests still ongoing		IEC 60216 -50% elongation	hours at 150°C	≥ 10000**
TENSILE STRENGTH AT BREAK	23°C	ASTM D 638	MPa	≥ 35
ELONGATION AT BREAK	23°C	ASTM D 638	%	≥ 60
FLEXURAL MODULUS	23°C	ISO 178	MPa	≤ 1300
VICAT SOFTENING	120°C/ h, 50N	ISO 306	°C	165
VOLUME RESISTIVITY	23°C	IEC 60093	ohm.cm	> 10 <sup>16</sup>
	100°C	internal	ohm.cm	> 10 <sup>14</sup>
	150°C	internal	ohm.cm	> 10 <sup>12</sup>
DIELECTRIC STRENGTH	internal	0.25mm	kV/ mm	60
RELATIVE PERMITTIVITY	Dielectric constant	ASTM D150	at 100 Hz	3.15
		ASTM D150	at 1 MHz	3.03
		internal	at 10 GHz	2.7
FLAMMABILITY		UL 94 style	1.6 mm	V0
LOI	Oxygen index	ASTM D2863	%	48
CORROSIVITY	Combustion gases	IEC 60754-2	pH	PASS (5,7)
SMOKE DENSITY	Optical density	ASTM E 662	D <sub>s</sub> max at 0.8 mm	PASS (9)
GAS TOXICITY	aircraft standard	BSS 7239	-	PASS

THE INFORMATION ON THIS DATASHEET IS BASED ON DATA OBTAINED BY OUR RESEARCH AND IS CONSIDERED ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA AND THE RESULTS OBTAINED FROM THE USE THEREOF.  
THIS INFORMATION IS PROVIDED UPON THE CONDITION THAT THE RECIPIENT SHALL CONDUCT TESTS TO DETERMINE THE SUITABILITY OF THE PRODUCT IN HIS PARTICULAR APPLICATION.

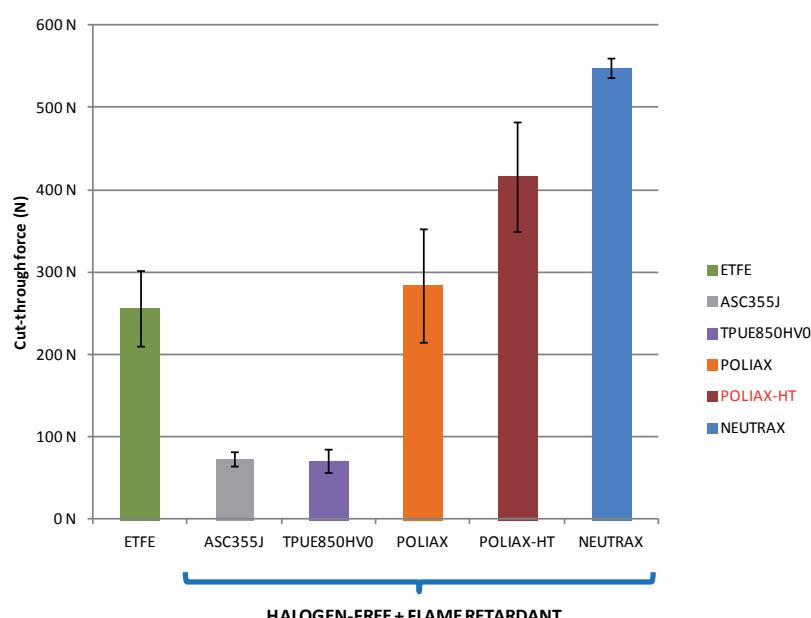
## Abrasion resistance at 25°C



SPECIMENS :  
 Insulated AWG 24 wires  
 Diameter 1.15 mm  
 Insulation thickness = 0.25 mm

- Test based on ESCC 3901:  
Needle Ø 0,45mm (size N°10)
- Abrasion on 10 mm length
- Applied mass : 260 g
- 55 cycles/ min
- Operating Temperature:  
-40°C +150°C.

## Cut-through resistance at 25°C



SPECIMENS :  
 Insulated AWG 24 wires  
 Diameter 1.15 mm  
 Insulation thickness = 0.25 mm

- Test based on ESCC 3901:  
at 1 mm/min

## Other results

### NEW

-	ETFE	POLIAX	POLIAX-HT	NEUTRAX
TEMPERATURE RATING	150°C	135°C	150°C	250°C
HALOGEN-FREE SOLUTION	NO	YES	YES	YES
INSULATION DENSITY	1.75	1.18	1.19	1.3
FLEXIBILITY AT 25°C	+	++	+	--
ABRASION RESISTANCE AT 25°C (CYCLES, 260g, 0,25 mm)	20000	1700	5000	> 30000
ABRASION RESISTANCE AT 150°C (CYCLES, 260g, 0,25 mm)	600	1	700	> 30000
CUT THROUGH AT 25°C (N) (1mm/min)	300	300	400	550
DIELECTRIC CONSTANT (25°C, 1MHz)	2.6	3.1	3.1	3.2
SMOKE OPACITY AND TOXICITY	-	+	+	++

## Advantages

- › POLIAX-HT has higher thermal rating than standard POLIAX (150°C vs 135°C).
- › Better abrasion resistance and cut-through resistance compared to standard POLIAX.
- › Very Low density (1.19) compared to other high temperature halogen-free solution : weight saving.
- › At 150°C, similar abrasion and even better cut-through resistance than ETFE.
- › High radiation resistance.
- › Easy to strip.

## Limitations

- › Lower flexibility compared to standard POLIAX but 3x times better than NEUTRAX or Polyimides.

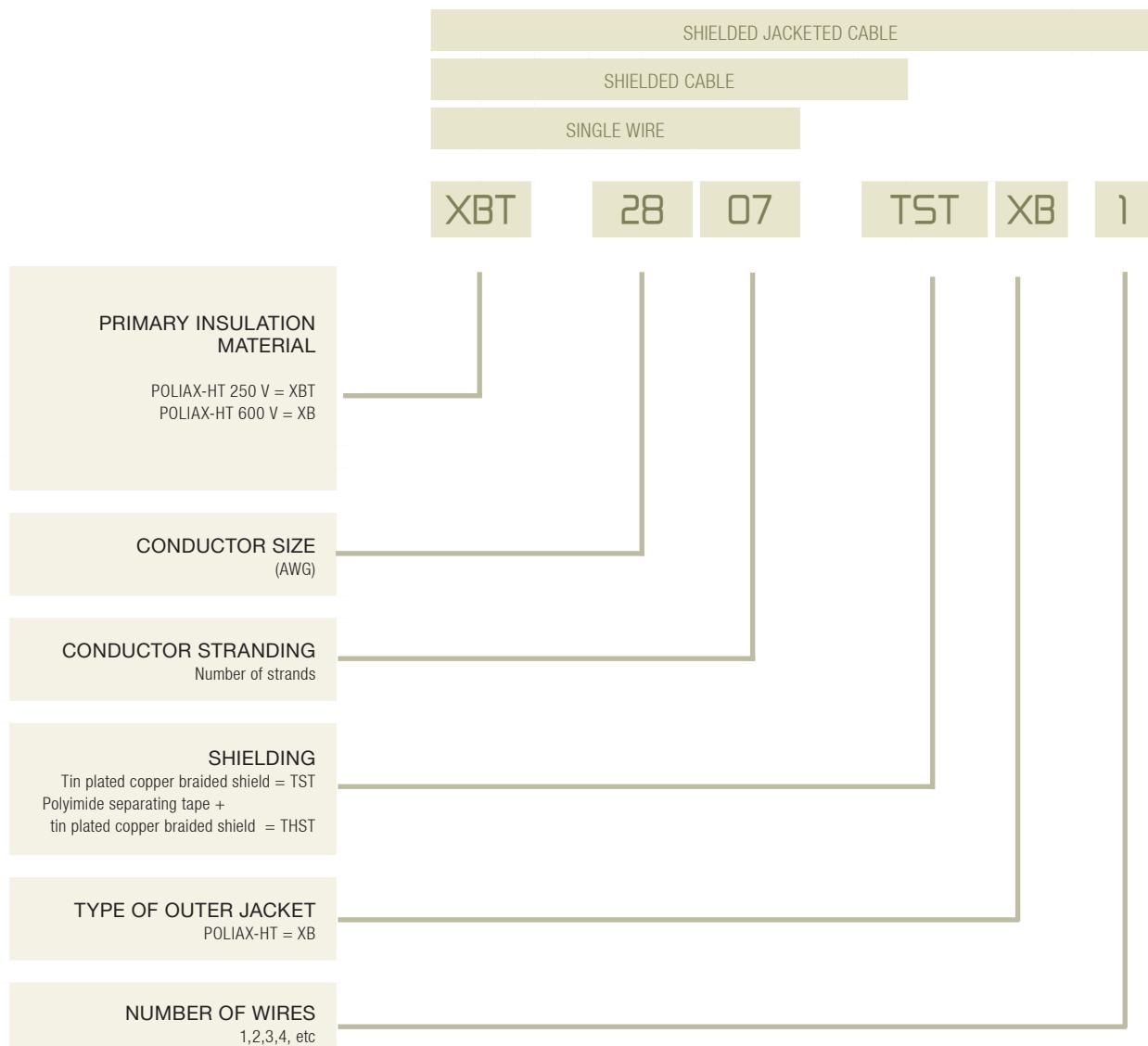
## Applications

- › High temperature flexible halogen-free wires and cables(150°C).
- › Halogen-free alternative to ETFE insulated wires and cables.
- › More Flexible and lower density alternative to PEEK/TPI/ Polyimide tapes. insulations for applications up to 150°C.

### Quality assurance

- › ISO 9001
- › ISO 14001
- › ISO 45001
- › Business Excellence Models (EFQM)
- › ISO 13485
- › IATF 16949
- › EN 9100

## AXON' reference identification code



FOR FURTHER INFORMATION,  
our sales team is at your disposal for any advice you may require.

# Single wires

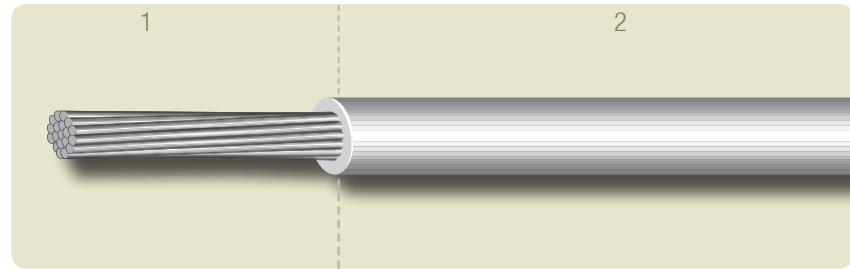
## TYPE XBT xxxx TPC

Insulation : POLIAX-HT halogen free / LSZH

Operating temperature : -40°C up to +150°C

Voltage rating : 250 VAC

Colours : according to the customers requirements



### Construction

#### PRIMARY WIRE

1 - Conductor : tin plated annealed copper (TPC)

2 - Insulation : POLIAX-HT

### Main characteristics

Pairs, triples and quads as well as shielded cables jacketed with 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 (mm²)	MAXIMUM RESISTANCE (Ω/100m)	NOMINAL Ø (mm)	WEIGHT (g/m)
XBT 2807 TPC	28	7 x 0.127	0.38	0.0886	20.8	0.70	1.10
XBT 2619 TPC	26	19 x 0.102	0.48	0.154	12.87	0.80	1.80
XBT 2419 TPC	24	19 x 0.127	0.60	0.24	7.66	0.95	2.70
XBT 2237 TPC	22	37 x 0.114	0.78	0.38	5.08	1.10	4.20
XBT 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

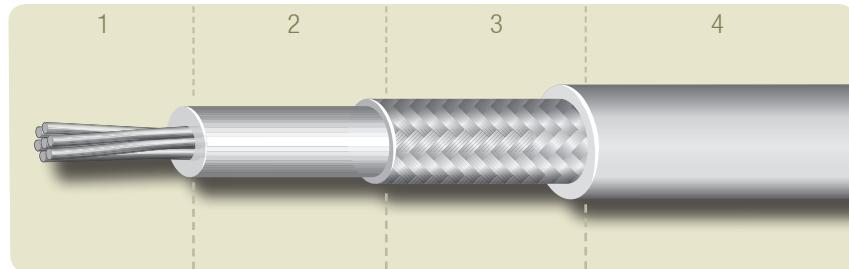
## TYPE XBT xxxx TSTXB 1 TPC

**Insulation : POLIAX-HT halogen free / LSZH**

**Operating temperature : -40°C up to +150°C**

**Voltage rating : 250 VAC**

**Outer jacket colour : white. Other colours upon request**



### Construction

#### PRIMARY WIRE

1 - Conductor : tin plated annealed copper (TPC)

2 - Insulation : POLIAX-HT

#### SHIELDING

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

#### OUTER JACKET

4 - POLIAX HT

### Main characteristics

Pairs, triples and quads as well as shielded cables jacketed 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)
XBT 2807 TSTXB 1	XBT 2807 TPC	0.70	0.102	85	1.15	1.40	4.40
XBT 2619 TSTXB 1	XBT 2619 TPC	0.80	0.102	96	1.25	1.50	6.50
XBT 2419 TSTXB 1	XBT 2419 TPC	0.95	0.102	93	1.40	1.70	7.60
XBT 2237 TSTXB 1	XBT 2237 TPC	1.10	0.102	88	1.55	1.90	9.50
XBT 2037 TSTXB 1	XBT 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

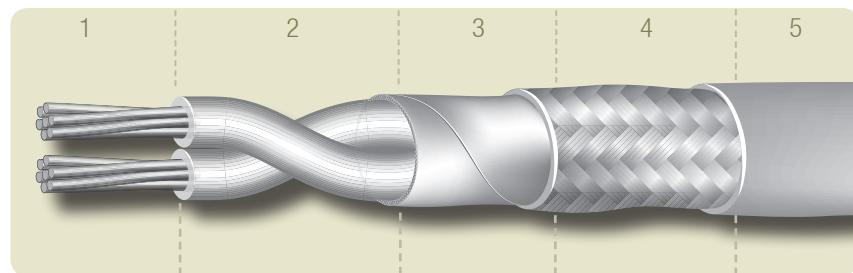
## TYPE XBT xxxx THSTXB 2 TPC

**Insulation : POLIAX-HT halogen free / LSZH**

**Operating temperature : -40°C up to +150°C**

**Voltage rating : 250 VAC**

**Outer jacket colour : white. Other colours upon request**



### Construction

#### PRIMARY WIRE

1 - Conductor : tin plated annealed copper (TPC)

2 - Insulation : POLIAX-HT

#### TAPE

3 - Polyimide separating tape

#### SHIELDING

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

#### OUTER JACKET

5 - POLIAX-HT

### Main characteristics

Pairs, triples and quads as well as shielded cables jacketed 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)
XBT 2807 THSTXB 2	XBT 2807 TPC	0.70	0.102	85	1.90	2.20	8.00
XBT 2619 THSTXB 2	XBT 2619 TPC	0.80	0.127	96	2.20	2.50	11.60
XBT 2419 THSTXB 2	XBT 2419 TPC	0.95	0.127	93	2.50	2.80	15.80
XBT 2237 THSTXB 2	XBT 2237 TPC	1.10	0.127	88	2.80	3.10	19.30
XBT 2037 THSTXB 2	XBT 2037 TPC	1.30	0.127	93	3.20	3.55	28.50

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

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# Shielded jacketed twisted triples

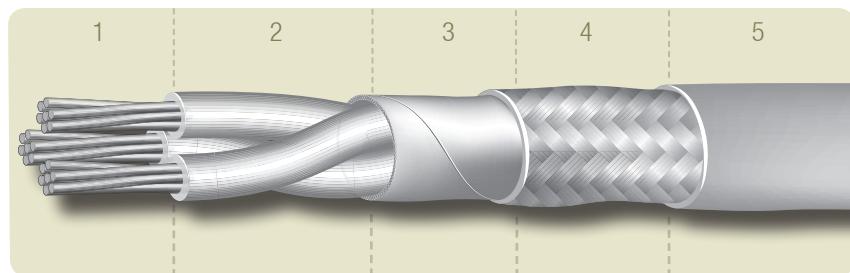
## TYPE XBT xxxx THSTXB 3 TPC

Insulation : POLIAX HT halogen free / LSZH

Operating temperature : -40°C up to +150°C

Voltage rating : 250 VAC

Outer jacket colour : white. Other colours upon request.



### Construction

#### PRIMARY WIRE

1 - Conductor : tin plated annealed copper (TPC)

2 - Insulation : POLIAX-HT

#### TAPE

3 - Polyimide separating tape

#### SHIELDING

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

#### OUTER JACKET

5 - POLIAX-HT

### Main characteristics

Pairs, triples and quads as well as shielded cables jacketed with 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)
XBT 2807 THSTXB 3	XBT 2807 TPC	0.70	0.102	90	2.00	2.30	10.40
XBT 2619 THSTXB 3	XBT 2619 TPC	0.80	0.127	93	2.30	2.60	15.50
XBT 2419 THSTXB 3	XBT 2419 TPC	0.95	0.127	87	2.65	3.00	19.10
XBT 2237 THSTXB 3	XBT 2237 TPC	1.10	0.127	90	2.95	3.30	25.80
XBT 2037 THSTXB 3	XBT 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

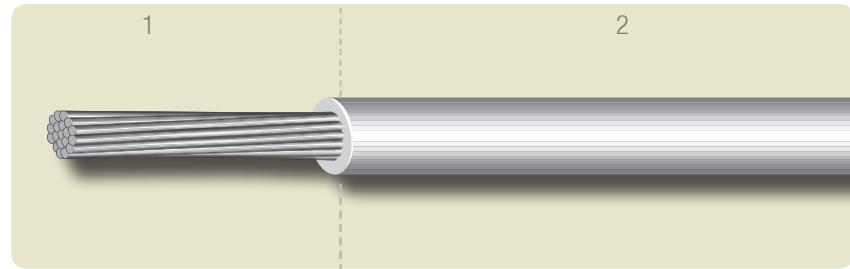
## TYPE XB xxxx TPC

**Insulation : POLIAX-HT halogen free / LSZH**

**Operating temperature : -40°C up to +150°C**

**Voltage rating : 600 VAC**

**Colours : according to the customers requirements**



### Construction

#### PRIMARY WIRE

1 - Conductor : tin plated annealed copper (TPC)

2 - Insulation : POLIAX-HT

### Main characteristics

Pairs, triples and quads as well as shielded cables jacketed with 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 (mm²)	MAXIMUM RESISTANCE (Ω/100m)	NOMINAL Ø (mm)	WEIGHT (g/m)
XB 2807 TPC	28	7 x 0.127	0.38	0.0886	20.8	0.85	1.40
XB 2619 TPC	26	19 x 0.102	0.48	0.154	12.87	0.95	2.00
XB 2419 TPC	24	19 x 0.127	0.60	0.24	7.66	1.05	2.80
XB 2237 TPC	22	37 x 0.114	0.78	0.38	5.08	1.20	4.40
XB 2037 TPC	20	37 x 0.142	0.97	0.59	3.37	1.50	6.70
XB 1861 TPC	18	61 x 0.142	1.24	0.97	2.05	1.80	10.60
XB 1661 TPC	16	61 x 0.160	1.45	1.23	1.56	2.00	13.10
XB 1461 TPC	14	61 x 0.203	1.75	1.91	1.04	2.35	20.80
XB 1291 TPC	12	91 x 0.203	2.15	2.94	0.68	2.90	31.20
XB 1091 TPC	10	91 x 0.254	2.70	4.46	0.43	3.55	47.60
XB 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

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# Shielded jacketed single core cables

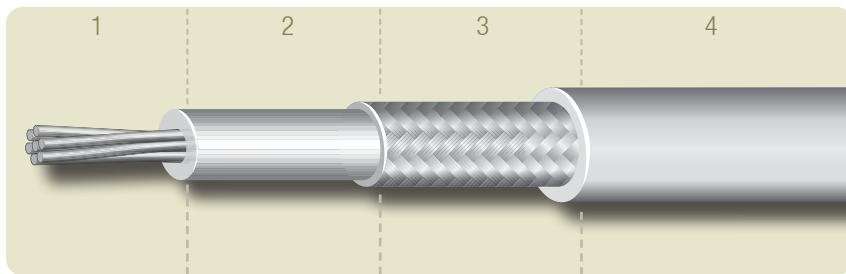
## TYPE XB xxxx TSTXB 1 TPC

**Insulation : POLIAX-HT halogen free / LSZH**

**Operating temperature : -40°C up to +150°C**

**Voltage rating : 600 VAC**

**Outer jacket colour : white. Other colours upon request**



### Construction

#### PRIMARY WIRE

1 - Conductor : tin plated annealed copper (TPC)

2 - Insulation : POLIAX-HT

#### SHIELDING

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

#### OUTER JACKET

4 - POLIAX-HT

### Main characteristics

Pairs, triples and quads as well as shielded cables jacketed with 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)
XB 2807 TSTXB 1	XB 2807 TPC	0.85	0.102	98	1.40	1.60	6.30
XB 2619 TSTXB 1	XB 2619 TPC	0.95	0.102	95	1.50	1.75	7.10
XB 2419 TSTXB 1	XB 2419 TPC	1.05	0.102	92	1.60	1.85	8.00
XB 2237 TSTXB 1	XB 2237 TPC	1.20	0.127	96	1.75	2.15	12.40
XB 2037 TSTXB 1	XB 2037 TPC	1.50	0.127	97	2.05	2.40	16.60
XB 1861 TSTXB 1	XB 1861 TPC	1.80	0.127	92	2.35	2.75	21.00
XB 1661 TSTXB 1	XB 1661 TPC	2.00	0.127	96	2.55	2.95	26.80
XB 1461 TSTXB 1	XB 1461 TPC	2.35	0.127	91	2.90	3.50	35.10
XB 1291 TSTXB 1	XB 1291 TPC	2.90	0.127	90	3.45	3.90	47.10
XB 1091 TSTXB 1	XB 1091 TPC	3.55	0.127	89	4.10	4.90	63.30
XB 8133 TSTXB 1	XB 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

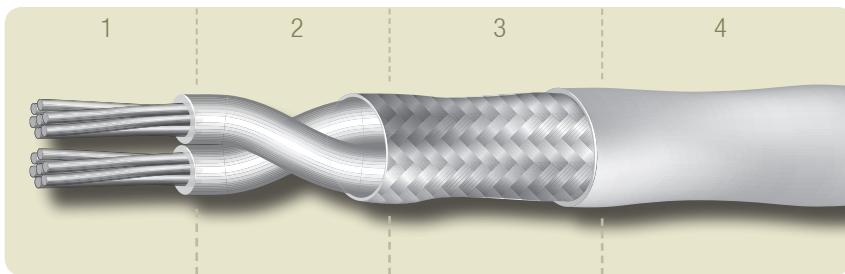
## TYPE XB xxxx TSTXB 2 TPC

Insulation : POLIAX-HT halogen free / LSZH

Operating temperature : -40°C up to +150°C

Voltage rating : 600 VAC

Outer jacket colour : white. Other colours upon request



### Construction

#### PRIMARY WIRE

1 - Conductor : tin plated annealed copper (TPC)

2 - Insulation : POLIAX-HT

#### SHIELDING

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

#### OUTER JACKET

4 - POLIAX-HT

### Main characteristics

Pairs, triples and quads as well as shielded cables jacketed with 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)
XB 2807 TSTXB 2	XB 2807 TPC	0.85	0.127	95	2.25	2.60	13.20
XB 2619 TSTXB 2	XB 2619 TPC	0.95	0.127	90	2.45	2.80	14.50
XB 2419 TSTXB 2	XB 2419 TPC	1.05	0.127	86	2.65	3.00	18.50
XB 2237 TSTXB 2	XB 2237 TPC	1.20	0.127	91	2.95	3.35	22.40
XB 2037 TSTXB 2	XB 2037 TPC	1.50	0.127	90	3.55	4.00	29.60
XB 1861 TSTXB 2	XB 1861 TPC	1.80	0.127	91	4.15	4.60	41.70
XB 1661 TSTXB 2	XB 1661 TPC	2.00	0.127	86	4.55	5.00	49.10
XB 1461 TSTXB 2	XB 1461 TPC	2.35	0.127	89	5.25	5.90	69.60
XB 1291 TSTXB 2	XB 1291 TPC	2.90	0.127	89	6.35	7.00	96.80
XB 1091 TSTXB 2	XB 1091 TPC	3.55	0.160	87	7.80	8.90	146.30
XB 8133 TSTXB 2	XB 8133 TPC	5.10	0.160	93	10.90	12.30	261.20

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

**axon'**  
cable & interconnect

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LOW SMOKE HALOGEN FREE CABLES - [www.axon-cable.com](http://www.axon-cable.com)

# Shielded jacketed twisted triples

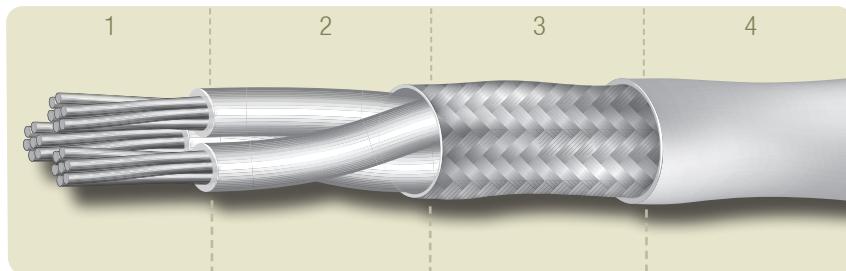
## TYPE XB xxxx TSTXB 3 TPC

Insulation : POLIAX-HT halogen free / LSZH

Operating temperature : -40°C up to +150°C

Voltage rating : 600 VAC

Outer jacket colour : white. Other colours upon request



### Construction

#### PRIMARY WIRE

1 - Conductor : tin plated annealed copper (TPC)

2 - Insulation : POLIAX-HT

#### SHIELDING

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

#### OUTER JACKET

4 - POLIAX-HT

### Main characteristics

Pairs, triples and quads as well as shielded cables jacketed with 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)
XB 2807 TSTXB 3	XB 2807 TPC	0.85	0.127	95	2.30	2.75	14.70
XB 2619 TSTXB 3	XB 2619 TPC	0.95	0.127	90	2.50	3.00	19.00
XB 2419 TSTXB 3	XB 2419 TPC	1.05	0.127	86	2.70	3.20	21.40
XB 2237 TSTXB 3	XB 2237 TPC	1.20	0.127	91	3.15	3.60	29.40
XB 2037 TSTXB 3	XB 2037 TPC	1.50	0.127	90	3.80	4.25	38.70
XB 1861 TSTXB 3	XB 1861 TPC	1.80	0.127	91	4.40	4.95	54.90
XB 1661 TSTXB 3	XB 1661 TPC	2.00	0.127	86	4.85	5.35	68.40
XB 1461 TSTXB 3	XB 1461 TPC	2.35	0.127	89	5.60	6.25	93.60
XB 1291 TSTXB 3	XB 1291 TPC	2.90	0.127	89	6.80	7.55	132.20
XB 1091 TSTXB 3	XB 1091 TPC	3.55	0.160	87	8.35	9.55	208.00
XB 8133 TSTXB 3	XB 8133 TPC	5.10	0.160	93	11.65	13.15	262.00

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