



XAT-331 Instrumentation to IEC 60092-376

XAT-331 armoured instrumentation marine cables are manufactured in accordance with IEC 60092 and IEC 60331-21 providing circuit integrity to critical circuits on ships and rigs. XAT-U-331 offers a combined braid screen copper armour whilst XAT-I includes an additional foil screen around each pair to prevent crosstalk. The cable is remarkably flexible resulting in easy installation in confined spaces and through difficult routes.

Construction

XAT-U-331: Copper conductors, Mica glass tape, XLPE insulation, bedding filler tape, copper wire braid screen & armour, SHF 1 Low Smoke Halogen Free sheath.

XAT-I-331: Copper conductors, Mica glass tape, XLPE insulation, each pair aluminium/polyester foil screened with a drain wire, bedding filler tape, copper wire braid screen & armour, SHF 1 Low Smoke Halogen Free sheath.

Core Identification

Pairs - Blue, white and numbered.

This can vary depending on the manufacturer, please specify if you have a preference.

Electrical Characteristics

Conductor Size:	0.75mm ²	1.5mm ²
Conductor Resistance:	<26.7 Ohms/km	<13.7 Ohms/km
Pair Capacitance @ 800Hz:		
Collective Screen:	50nF/km	60nF/km
Individual Screen:	70nF/km	90nF/km

Technical Information

Voltage Rating:	250V (300V)
Conductor Stranding:	IEC 60228 Class 2, plain copper
Temperature Rating:	-40°C to +85°C
Bending Radius Static:	6 x overall diameter
Fire Resistant:	IEC 60331-21
Flame Retardant:	IEC 60332-1-2, IEC 60332-3-22 Cat A
Smoke Emission:	IEC 61034-1 & 2
Halogen Emission:	IEC 60754-1 & 2
Manufactured To:	IEC 60092 series
3rd Party Approvals:	Lloyds, DNV, ABS, BV and Rina.

Approvals may vary between manufacture brands. Please tell us at time of enquiry if you have a specific requirement.

XATU1504P08M



Part No.	No. of Pairs	Size mm ²	Weight kg/km	O/D mm
XAT-U-331 Unscreened Pairs				
XATU0701PM	1	0.75	115	9.0
XATU0702PM	2*	0.75	165	11.5
XATU0704PM	4	0.75	325	15.5
XATU0705PM	5	0.75	330	16.5
XATU0707PM	7	0.75	455	20.0
XATU0708PM	8	0.75	500	21.0
XATU0710PM	10	0.75	625	23.5
XATU0712PM	12	0.75	710	25.5
XATU0714PM	14	0.75	795	27.0
XATU0719PM	19	0.75	1020	32.0
XATU0724PM	24	0.75	1250	34.5
XATU1501PM	1	1.5	150	11.5
XATU1502PM	2*	1.5	225	13.0
XATU1504PM	4	1.5	435	17.5
XATU1507PM	7	1.5	645	22.5

* 2 Pairs laid up as a quad