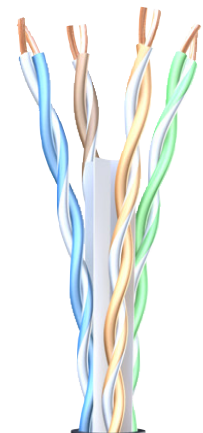
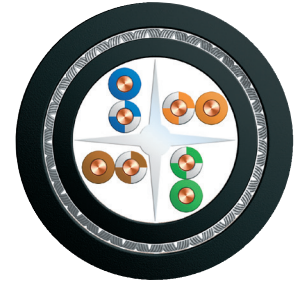


Armada[®] Cat5e <350 MHz> 24/1awg U/UTP LSZH/DataGuard[®] GSWB/SHF-1

Cable Design

Conductor	Solid Bare Cu-wire AWG 24/1
Insulation	Polyethylene (PE)
Pair assembly	2 cores twisted to a pair. 4 pairs total
Filler	Stabilising X-Filler
Pair identification	whbu-bu, whor-or, whgn-gn, whbn-bn
Inner Jacket	LSZH FireFighter [®]
Diameter	Ø 6,5 ± 0,15 mm
Armour	DataGuard [®] Galvanised Steel Wire Braid (GSWB)
Outer Jacket	LSZH FireFighter [®] SHF-1
Diameter	Ø 9,25 ± 0,5 mm
Weight	170 kg/km



Application

DataGuard[®] armoured data cable for analogue and digital transmission in the frequency range up to 350 MHz. This LAN cable provides an industrial data communication solution in onshore and offshore applications, also suitable for security cameras or any distribution control.

Use : IEEE 802.3, 10/100/1000Base-T; FDDI; ISDN; ATM

Standards

Applicable Standards	ISO-IEC 11801 2nd edition, EN 50173-1, TIA/EIA 568, EN 50288-2-1 IEC 61156-5.
Flamability Rating	IEC 60332-1, IEC 60754-2, EN 61034, IEC 61034

Specification

Part Number	Type
244965	Cat5e 4x2xAWG24/1 U/UTP <350 MHz> LSZH/GSWB/SHF-1

Thermal Characteristics

Temperature range	installation	-15 to +70	°C
	operation (fixed)	-40 to +70	°C
	storage	-40 to +70	°C

Electrical Characteristics

Complete conductor resistance		≤	190	Ω/km
Resistance unbalance		≤	2	%
Dielectric strength (continuous current)	1kV for 1 minute			no breakdown
Insulation resistance	500 V	≥	5000	MΩ.km
Capacitance unbalance	real-earth	≤	1600	pF/km
Characteristic impedance	@ 100 MHz		100±5	Ω
Velocity of Propagation	nominal		65	%

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	Return Loss (dB)	PS NEXT (dB)	ELFEXT (dB/100m)	PS ELFEXT (dB/100m)
	<i>Nom.</i>	<i>Nom.</i>	<i>Nom.</i>	<i>Nom.</i>	<i>Nom.</i>	<i>Nom.</i>
4	4,1	56,3	23	53,3	52	49
10	6,5	50,3	25	47,3	44	41
16	8,3	47,2	25	44,2	39,9	36,9
31,25	11,7	42,9	23,6	39,9	34,1	31,1
62,5	17	38,74	21,5	35,4	28,1	25,1
100	22	35,3	20,1	32,3	24	21
250	36,86	29,33	17,32	26,33	16,04	13,04
350	44,85	27,14	17,32	24,14	13,12	10,12