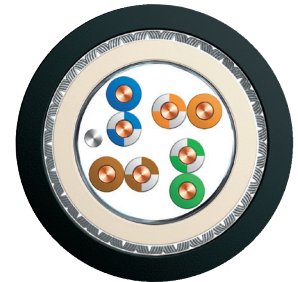


Armada® Cat5e <200 MHz> 24/1awg F/UTP LSZH/DataGuard® GSWB/SHF-1

Cable Design

Conductor	Solid Bare Cu-wire AWG 24/1
Insulation	SFS-PE
Pair assembly Pair identification	2 cores twisted to a pair. 4 pairs total whbu-bu, whor-or, whgn-gn, whbn-bn
Screen	Plastic laminated Aluminium foil + drain wire
Inner Jacket Diameter	LSZH FireFighter® Ø 6,10
Armour	DataGuard®Galvanised Steel Wire Braid (GSWB)
Outer Jacket Diameter Weight	LSZH FireFighter® SHF-1 Ø 9,60 181 kg/km



Application

DataGuard® armoured data cable for analogue and digital transmission in the frequency range up to 200 MHz. It is designed for primary (campus), secondary (riser) and tertiary (horizontal) wiring.

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
244969	Cat5e 4x2xAWG24/1 F/UTP <200 MHz> LSZH/GSWB/SHF-1

Thermal Characteristics

Temperature range	during installation	-15 to +70	°C
	stationary	-40 to +70	°C

Electrical Characteristics

Conductor loop resistance max.		19	Ω/100m
Insulation resistance min.		5	GΩ x km
Characteristic impedance	1-100 MHz	100±15	Ω
Transfer impedance max.	10 MHz	30	mΩ/m (nom.)
Mutual capacitance nom.		50	nF/km
Relative propagation velocity ca.		0,74	c
Screening attenuation min.	≤ 100 MHz	40	dB
Test voltage		700	V-AC

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB/100m)	ELFEXT (dB/100m)	RL (dB)
	<i>Nom.</i>	<i>Nom.</i>	<i>Nom.</i>	<i>Nom.</i>	<i>Nom.</i>
1	1,9	80	78,1	68	24
4	3,7	75	71,3	56	30
10	5,6	70	64,4	46	34
16	7,2	68	60,8	43	35
20	7,9	65	57,1	41	34
31,25	10,3	60	49,7	36	33
62,5	14,4	56	41,6	32	31
100	18,2	50	31,8	26	28
155	19,9	45	25,1	24	26
200	24,2	42	17,8	22	24