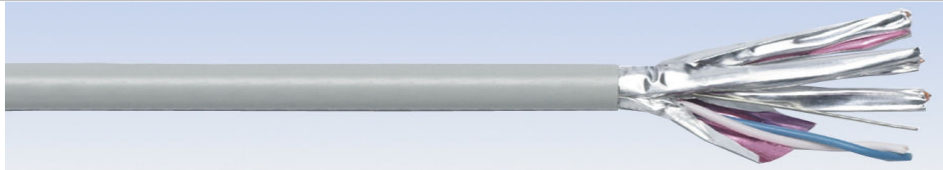


### Technical Specification

**Cable Type: 4x2x26# U/FTP Category 6A 100 Ohm Halogen-Free Patch Cable**

**WW P/N: G6A-0049X**

**Revision: 09/10 Date: 16 April 2010**



### Physical Description

Basic Conductor	Stranded 7x0.16 mm, 26AWG, bare annealed copper.
Insulation	FPO, 0.99±0.05 mm OD.
Total number of insulated conductors	8, twisted into 4 pairs: Blue x White/Blue, Orange x White/Orange, Green x White/Green, Brown x White/Brown.
Individual pair shield	Aluminum foil, providing 100% coverage, foil face out.
Overall shield	None.
Drain wire	Stranded 7x0.16 mm, 26AWG, tin-coated annealed copper laid in close contact with all 4 pairs.
Outer Jacket	Low-smoke Flame-retardant Halogen-free (LS0H) compound for indoor use.
Color	See below.
Overall Diameter	6.0±0.3 mm.
Surface Marking	WESTERN WIRE G6A-0049X 4x2x26# U/FTP CATEGORY 6A LS0H PATCH CABLE VERIFIED to ANSI/TIA-568-C.2 & ISO/IEC 11801 FR IEC 60332-1 CE 2002/95/EC (RoHS) [Month, Year] [Batch Number]
Note	X shall be replaced with the number representing the jacket color.

### Mechanical Properties

Bend Radius	50 mm min.
Storage Temperature	-20 to +75C
Temperature operating range	-20 to +75C
Flame Test	IEC 60332-1
Pulling force	48 N max.
Total Weight	32 Kg/Km nom.

### Electrical Properties @ 20C

Characteristic Impedance	100±15 Ohm @ 1-300 MHz 100±25 Ohm @ 300-500 MHz
Vp	80% nom.
Capacitance	40 pF/m nom @ 1 KHz
Capacitance unbalance (wire to ground)	1600 pF/m max @ 1 KHz
Insulation resistance	5000MOhm•Km min.
DC Resistance	145 Ohm /Km max.
DC Resistance unbalance	2% max.
Voltage rating	72Vdc max.
Delay Skew	25 nS/100m max.

### Transmission Properties - Conforming to IEC 61156-6 & ANSI/TIA-568-C.2 Category 6A

FREQ.	Insertion Loss	NEXT Loss	PS NEXT Loss	ACR-F	PS ACR-F	Return Loss	Prop. Delay	TCL	EL-TCTL	PS ANEXT	PS AACR-F
MHz	dB/100m	dB	dB	dB/100m	dB/100m	dB	nS/100m	dB	dB	dB	dB
	Max	Min	Min	Min	Min	Min	Max	Min	Min	Min	Min
1	3.1	75.30	73.30	68.00	65.00	20.00	570.00	40.00	35.00	67.00	67.00
10	8.9	60.30	58.30	48.00	45.00	25.00	545.38	40.00	15.00	67.00	58.20
20	12.6	55.78	53.78	41.98	38.98	25.00	542.05	36.99	8.98	67.00	52.18
25	14.1	54.33	52.33	40.04	37.04	24.2	541.20	36.02	7.04	67.00	50.24
30	15.4	53.14	51.14	38.46	35.46	23.3	540.57	35.23	5.46	67.00	48.66
62.5	22.5	48.36	46.36	32.08	29.08	20.7	538.55	32.04	NS	65.56	42.28
100	28.7	45.30	43.30	28.00	25.00	19.0	537.60	30.00	NS	62.50	38.20
200	41.4	40.78	38.78	21.98	18.98	16.4	536.55	26.99	NS	57.98	32.18
250	46.6	39.33	37.33	20.04	17.04	15.6	536.28	26.02	NS	56.53	30.24
300	51.4	38.14	36.14	18.46	15.46	15.6	536.08	25.23	NS	55.34	28.66
400	60.1	36.27	34.27	15.96	12.96	15.6	535.80	23.98	NS	53.47	26.16
500	67.9	34.82	32.82	14.02	11.02	15.6	535.61	23.01	NS	52.02	24.22

This cable fully conforms to EU Directive 2002/95/EC (RoHS)