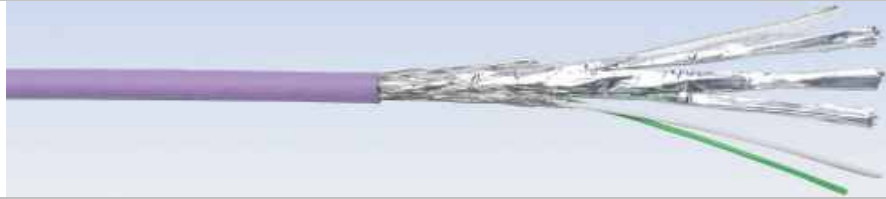


Technical Specification

Cable Type: 4x2x26# S/FTP Category 7 100 Ohm Halogen-Free Patch Cable

WW P/N: G07-0048X

Revision: 08/09 Date: 25 September 2009



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	Tin-coated copper wire braid, providing 65% nom. coverage.
Drain wire	None.
Outer Jacket	Low-smoke Flame-retardant Halogen-free (LS0H) compound for indoor use.
Color	See below.
Overall Diameter	6.2±0.3 mm.
Surface Marking	See below.

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	42 Kg/Km nom.

Electrical Properties @ 20C

Characteristic Impedance	100±15 Ohm @ 1-300 MHz 100±25 Ohm @ 300-600 MHz
Vp	80% nom.
Capacitance	40 pF/m nom @ 1 KHz
Capacitance unbalance (wire to ground)	1600 pF/m max @ 1 KHz
Insulation resistance	5000MΩm·Km min.
DC Resistance	145 Ohm /Km max.
DC Resistance unbalance	2% max.
Voltage rating	72Vdc max.
Delay Skew	25 nS/100m max.
PSANEXT Loss	62.5-15Log(f/100) dB min. @ 1-600 MHz
PSAACRF	38.2-20Log(f/100) dB min. @ 1-600 MHz

Transmission Properties - Conforming to IEC 61156-6 Category 7

FREQ. MHz	Insertion Loss dB/100m Max	NEXT dB Min	PS NEXT dB Min	EL FEXT dB/100m Min	PS EL FEXT dB/100m Min	RL dB Min	TCL dB Min	EL-TCTL dB Min
4.00	5.6	78.0	75.0	75.0	72.0	23.0	40	35
10.00	8.8	78.0	75.0	74.0	71.0	25.0	40	15
16.00	11.1	78.0	75.0	69.9	66.9	25.0	40	11
25.00	13.9	78.0	75.0	66.0	63.0	24.2	36	7.0
31.25	15.6	78.0	75.0	64.1	61.1	23.3	35	5.5
62.50	22.3	75.5	72.5	58.1	55.1	20.7	32	NS
100.00	28.5	72.4	69.4	54.0	51.0	19.0	30	NS
200.00	41.2	67.9	64.9	48.0	45.0	16.4	27	NS
300.00	51.3	65.2	62.2	44.5	41.5	15.6	NS	NS
400.00	60.0	63.4	60.4	42.0	39.0	15.6	NS	NS
500.00	68.0	61.9	58.9	40.0	37.0	15.6	NS	NS
600.00	75.1	60.7	57.7	38.4	35.4	15.6	NS	NS

Optional Jacket Colors and Surface Printing

WW P/N	Jacket Color	Surface Printing
G07-00480	Grey RAL 7035	WESTERN WIRE G07-00480 4x2x26# S/FTP CATEGORY 7 LS0H PATCH CABLE VERIFIED to ISO/IEC 11801 FR IEC 60332-1 CE 2002/95/EC (RoHS) [Month, Year] [Batch Number]
G07-00486	Red RAL 3000	WESTERN WIRE G07-00486 4x2x26# S/FTP CATEGORY 7 LS0H PATCH CABLE VERIFIED to ISO/IEC 11801 FR IEC 60332-1 CE 2002/95/EC (RoHS) [Month, Year] [Batch Number]
G07-00488	Yellow RAL 1021	WESTERN WIRE G07-00488 4x2x26# S/FTP CATEGORY 7 LS0H PATCH CABLE VERIFIED to ISO/IEC 11801 FR IEC 60332-1 CE 2002/95/EC (RoHS) [Month, Year] [Batch Number]
G07-00489	Purple RAL 4005	WESTERN WIRE G07-00489 4x2x26# S/FTP CATEGORY 7 LS0H PATCH CABLE VERIFIED to ISO/IEC 11801 FR IEC 60332-1 CE 2002/95/EC (RoHS) [Month, Year] [Batch Number]

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