



## ITMAX 40G Cat.8 F/FTP 22AWGX4P LSZH



Construction	RoHS Compliant																
	Category 8																
	F/FTP																
	LSZH																
Description	4 pairs twisted cable, using solid bare copper, 22 AWG, insulated with a high density polyethylene. Each pair is individually shielded by an aluminum foil tape. An aluminum foil tape is applied over the cable core. External jacket using LSZH - low smoke zero halogen compound.																
Installation Environment	Internal																
Operation Environment	Non heavy																
Standard	ANSI/TIA-568-C.2-1, IEC 61156-9, PN-568.2-D y IEC 60332-3-25																
Certifications	ETL Verified	103138226CRT-001a															
Constructive Characteristic																	
Conductor	Solid bare copper with nominal diameter 22 AWG.																
Insulation	High density polyethylene. Nominal diameter 1.6 mm.																
Number of Pairs	4 pairs, 22 AWG																
Color code	<table border="1"> <thead> <tr> <th>Pair</th> <th>Insulation Color "A"</th> <th>Insulation Color "B"</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Blue</td> <td>White / Blue Stripe</td> </tr> <tr> <td>2</td> <td>Orange</td> <td>White / Orange Stripe</td> </tr> <tr> <td>3</td> <td>Green</td> <td>White / Green Stripe</td> </tr> <tr> <td>4</td> <td>Brown</td> <td>White / Brown Stripe</td> </tr> </tbody> </table>		Pair	Insulation Color "A"	Insulation Color "B"	1	Blue	White / Blue Stripe	2	Orange	White / Orange Stripe	3	Green	White / Green Stripe	4	Brown	White / Brown Stripe
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Cabling	All individually shielded pairs are assembled, making the cable core.																
Shield	Over the cable core is used an aluminum foil tape																
Drain Wire	26 AWG tin plated copper conductor in contact with the aluminum foil.																

Sheath	LSZH compound suitable to meet the cable flame rating class.
Nominal Diameter (mm)	8,4 mm
Color	Green or gray
Cable Weight	62 kg/km
Cable Flammability Rating	<b>LSZH IEC 60332-3:</b> Debe cumplir con IEC 60332 Part 3-25: "Test for vertical flame spread of vertically mounted bunched wires or cables"
Operation Temperature (°C)	-20 °C up to 75 °C
Insulation Resistance (MΩ)	5 GΩ.km
Maximum Unbalance Resistance	2 %
Conductor Max. DC Resistance @ 20 °C	7 Ohm/100m @ 20 °C
Maximum Mutual Capacitance @ 1 kHz	5,6 nF/100 m @ 1 kHz
Max. Unbalance Capacitance Pair x Ground @ 1 kHz	1200 pF/km
Maximum Delay Skew	25 ns/100 m
NVP (%)	74 %

Transmission Performance	Frec, MHz	Insertion loss, max dB	NEXT, min dB	PSNEXT, min dB	ACRF, min dB	PSACRF, min dB	RL, min dB	PSANEXT, min dB
		1	2.0	75.3	72.3	75.0	76.0	20.0
	4	2.0	66.3	63.3	67.0	64.0	23.0	80.0
	10	2.0	60.3	57.3	59.0	56.0	25.0	80.0
	16	2.2	57.2	54.2	54.9	51.9	25.0	80.0
	20	2.5	55.8	52.8	53.0	50.0	25.0	80.0
	25	2.8	54.3	51.3	51.0	48.0	25.0	80.0
	30.0	3.0	53.1	50.1	49.5	46.5	25.0	80.0
	62.5	4.4	48.4	45.4	43.1	40.1	23.6	80.0
	100	5.6	45.3	42.3	39.0	36.0	22.2	80.0
	200	7.9	40.8	37.8	33.0	30.0	20.1	80.0

250	8.9	39.3	36.3	31.0	28.0	19.4	80.0
300	9.8	38.1	35.1	29.5	26.5	18.9	80.0
500	12.8	34.8	31.8	25.0	22.0	17.3	77.0
600	14.1	33.6	30.6	23.4	20.4	16.8	75.8
700	15.3	32.6	29.6	22.1	19.1	16.3	74.8
800	16.5	31.8	28.8	20.9	17.9	15.9	74.0
900	17.6	31.0	28.0	19.9	16.9	15.5	73.2
1000	18.6	30.3	27.3	19.0	16.0	15.2	72.5
1100	19.6	29.7	26.7	18.2	15.2	14.9	71.9
1200	20.5	29.1	26.1	17.4	14.4	14.7	71.3
1500	23.2	27.7	24.7	15.5	12.5	14.0	69.9
2000	27.2	25.8	22.8	13.0	10.0	13.1	68.0
Freq, MHz	PSAACRF	Propagation Delay Skew, min ns	TCL, min dB	ELTCTL, min dB	Coupling Attenuation, min dB	Surface Transfer Impedance, mOhm/m	
1	80.0	171.0	40.0	40.0	n/s	50.0	
4	80.0	165.5	40.0	28.0	n/s	50.0	
10	80.0	163.5	35.0	20.0	n/s	100.0	
16	78.1	162.8	31.9	15.9	n/s	160.0	
20	76.2	162.5	30.5	14.0	n/s	200.0	
25	74.2	162.2	29.0	12.0	n/s	250.0	
30.0	72.7	162.0	27.8	10.5	n/s	300.0	
62.5	66.3	161.4	23.1	5.0	55.0	625.0	
100	62.2	161.1	20.0	5.0	55.0	1000.0	
200	56.2	160.8	15.5	5.0	49.0	-	
250	54.2	160.7	14.0	5.0	47.0	-	
300	52.7	160.6	12.8	5.0	45.5	-	
500	48.2	160.5	9.5	5.0	41.0	-	
600	46.6	160.4	8.3	5.0	39.4	-	
700	45.3	160.4	7.3	5.0	38.1	-	
800	44.1	160.4	7.0	5.0	36.9	-	
900	43.1	160.4	7.0	5.0	35.9	-	
1000	42.2	160.3	7.0	5.0	35.0	-	
1100	41.4	160.3	7.0	5.0	34.2	-	
1200	40.6	160.3	7.0	5.0	33.4	-	
1500	38.7	160.3	7.0	5.0	31.5	-	
2000	36.2	160.2	7.0	5.0	29.0	-	

**Marking**

**FURUKAWA ITMAX 40G CAT 8 F/FTP 22AWGX4P LSZH -- VERIFIED TO ANSI/TIA-568-C.2-1 CATEGORY 8 IEC 61156-9 --- AAMMDDHHmm JNN {1}m**

Donde:

**AAMMDDHHmm:** AA- Año; MM- Mes; DD- Día; HH- Hora; mm- Minuto

**JNN:** Trazabilidad

**{1}** - Secuencial métrica descendente

Standard Length      305 meters

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[Part Numbers](#)