

4 PAIRS CAT.5E FTP PATCH CABLE

DESCRIPTION

CONDUCTOR

Material	BC
Stranding	Stranded
Wire Gage	24AWG
Dia.(+/-0.005mm)	0.2*7

INSULATION

Material	HPDE
Dia.(+/-0.005mm)	1.08
Color Code	White/Blue & Blue White/Orange & Orange White/Green & Green White/Brown & Brown

PAIRED

Direction	Z
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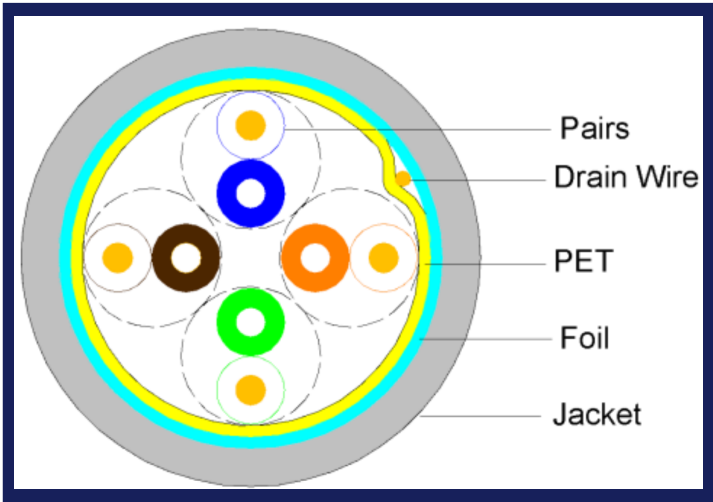
CABLING

Order of the Pair	See the Cross Section
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OUTER SHEATH

Material	Flame Retardant LSZH
Thickness(+/-0.05mm)	08
Dia.(+/-0.3mm)	6.8
Drain Wire	TC 0.2*7
Shielding	AL/P Foil
Mark	AUTOMATED www.automated.net.au CAT 5E 4PR STRANDED 24 AWG STP 75C 'RCM Logo' 'CE logo' 'XXX'M

CROSS SECTION



ELECTRICAL CHARATERISTICS

TEST ITEM (20°C)	UNITS	SPEC
1.Max.Conductor DC Resistance	Ω/km	≤140
2.Unbalance of Pair DC Resistance	%	≤2.5
3.Dielectric Strength between Pairs	kV/min	DC1.0
4.Min.Insulation Resistance	MΩ·km	≥5000
5.Max.Pair Mutual Capacitance	nF/100m	≤5.6
6.Max.Pair Capacitance Unbalance	pF/100m	≤330
7.Impedance(1 to 100MHz)	Ω	100±15

FREQUENCY (MHZ)	MIN.RL (DB)	MAX.IL (DB/100M)	MIN.NEXT (DB)	MIN.PSNEXT (DB)
1	20.0	2.4	65.3	62.3
4	23.0	4.9	56.3	53.3
8	24.5	6.9	51.8	48.8
10	25.0	7.8	50.3	47.3
16	25.0	9.9	47.3	44.2
20	25.0	11.1	45.8	42.8
25	24.2	12.5	44.3	41.3
31.25	23.3	14.1	42.9	39.9
62.5	20.7	20.4	38.4	35.4
100	19.0	26.4	35.3	32.3

FREQUENCY (MHZ)	MIN.ELFEXT (DB)	MIN.PSELFEX T (DB)	MAX.DELAY (NS/100M)	MAX.DELAY SKEW(NS/100M)
1	63.8	60.8	570	45
4	51.8	48.8	552	45
8	45.7	42.7	547	45
10	43.8	40.8	545	45
16	39.7	36.7	543	45
20	37.8	34.8	542	45
25	35.8	32.8	541	45
31.25	33.9	30.9	540	45
62.5	27.9	24.9	539	45
100	23.8	20.8	538	45

ROHS GUIDELINE

Cadmium content (Cd)	< 0.01%
Lead content (Pb)	<0.1%
Mercury content (Hg)	<0.1%
Chromium (VI) content	<0.1%
Polybrominated Biphenyls (PBB)	<0.1%
Polybrominated Diphenyl Ether (PBDE)	<0.1%

SHEATH MECHANICAL CHARACTERISTICS

TEST MATERIAL	FLAME RETARDANT LSZH
Before Tensile Strength(Mpa)	≥8.3
Aging Elongation(%)	≥100
After Tensile Strength(% of uanged)	≥75
Aging Elongation(% of unaged)	≥75
Cold Bend(-20±°C×4hrs)	No crack
Operating Temperature Range	-20~+70°C
Min.Bend Radius(Install)	8×D

COMPLIANCE

CERTIFICATION	ACA Approval (N1756) UL 444 TIA/EIA-568-B.2 & ISO/IEC 11801
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