

PREMIUM 5e F/UTP 4-PAIR SOLID ROUND CABLE — INTERNATIONAL



COMPLIANCE

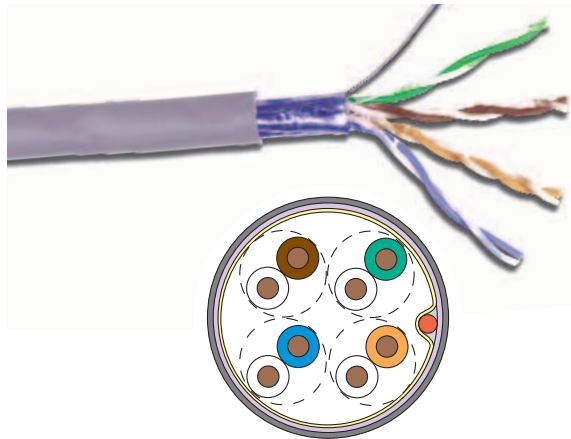
- ISO/IEC 11801:2002 (Category 5e)
- ANSI/TIA/EIA-568-B.2 (Category 5e)
- IEC 61156-5:2002 (Category 5e)
- LSOH: IEC 60332-1, IEC 60754 and IEC 61034
- UL CMX
- UL CMR and CSA FT4
- UL CMP and CSA FT6

CABLE CONSTRUCTION

- F/UTP
- 0.5mm (24 AWG) solid bare copper
- 7.4mm max jacket diameter
- 1.0mm max conductor insulation diameter
- Shield is an aluminium foil tape enclosing a 0.5mm tinned copper drain wire

PART #	DESCRIPTION
9A5R4-E2	PVC (CMR, CSA FT4), Blue Jacket, 305m Reel-in-Box
9A5P4-E2	Plenum, (CMP, CSA FT6), Blue Jacket, 305m Reel-in-Box
9A5X4-E2	PVC (CMX, IEC 60332-1), Grey Jacket, 305m Reel-in-Box
9A5L4-E2	LSOH (IEC 60332-1), Violet Jacket, 305m Reel-in-Box

Other cable lengths also available:
Add *-5CR for 500m Reel, *-1KR for 1000m Reel



ELECTRICAL SPECIFICATIONS

DC Resistance	<9.38 Ω/100m.
DC Resistance Unbalance	5%
Mutual Capacitance	5.6 nF/100m
Capacitance Unbalance	<330 pF/100m
Characteristic Impedance (ohms)	1 - 100 MHz: 100 ± 15% 100 - 250 MHz: 100 ± 22%
NVP	69%
LCL	40-10 x log(f)dB
Delay Skew	≤ 40ns

PHYSICAL PROPERTIES

	CMP/LSOH	CMR/CMX
Pulling Tension (max)	110N	110N
Bend Radius (min)	25mm	25mm
Installation Temperature	0 to 60°C	-36 to 60°C
Storage Temperature	-20 to 75°C	-34 to 75°C
Operating Temperature	-20 to 60°C	-34 to 60°C

TRANSMISSION PERFORMANCE

■ TIA/EIA & ISO/IEC

□ SIEMON TYPICAL

HEBEPHO

Frequency (MHz)	Insertion Loss (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)		Propagation Delay (ns)	
1.0	2.1	1.9	65.3	79.3	62.3	72.3	63.2	77.4	60.2	70.4	63.8	84.8	60.8	78.8	20.0	27.0	570	545
4.0	4.1	3.7	56.3	70.3	53.3	63.3	52.2	66.6	49.2	59.6	51.8	72.8	48.8	66.8	23.0	32.0	552	527
10.0	6.5	5.8	50.3	64.3	47.3	57.3	43.8	58.5	40.8	51.5	43.8	64.8	40.8	58.8	25.0	32.0	545	520
16.0	8.3	7.4	47.2	61.2	44.2	54.2	39.0	53.8	36.0	46.8	39.7	60.7	36.7	54.7	25.0	32.0	543	518
20.0	9.3	8.3	45.8	59.8	42.8	52.8	36.5	51.5	33.5	44.5	37.8	58.8	34.8	52.8	25.0	32.0	542	517
31.25	11.7	10.5	42.9	56.9	39.9	49.9	31.1	46.4	28.1	39.4	33.9	54.9	30.9	48.9	23.6	30.0	540	515
62.5	17.0	15.0	38.4	52.4	35.4	45.4	21.4	37.4	18.4	30.4	27.9	48.9	24.9	42.9	21.5	30.0	539	514
100.0	22.0	19.3	35.3	49.3	32.3	42.3	13.3	30.0	10.3	23.0	23.8	44.8	20.8	38.8	20.1	30.0	538	513
160.0*	28.6	25.1	32.2	46.2	29.2	39.2	3.7	21.1	0.7	14.1	19.7	40.7	16.7	34.7	18.7	28.0	537	512
200.0*	32.4	28.1	30.8	44.8	27.8	37.8	-1.6	16.7	-4.6	9.7	17.8	38.8	14.8	32.8	18.0	27.0	536	512
250.0*	36.9	31.4	29.3	43.3	26.3	36.3	-7.5	11.9	-10.5	4.9	15.8	36.8	12.8	30.8	17.3	26.0	536	511
300.0*	41.0	34.5	28.1	42.1	25.1	35.1	-12.8	7.6	-15.8	0.6	14.3	35.3	11.3	29.3	16.8	25.0	536	511
350.0*	44.9	39.4	27.1	41.1	24.1	34.1	-17.7	1.7	-20.7	-5.3	12.9	33.9	9.9	27.9	16.3	24.0	536	511

*Values above 100 MHz are informational only.

All performance based on 100 metres.

RELATED PRODUCTS Cable Preparation Tool page 111