



<p>APPLICATION</p> <p>Suitable for both voice and data applications in Local Area Networks allowing for improved performance over Cat 5 for same distances.</p> <ul style="list-style-type: none"> • 10 Base-T (IEEE 802.3) • 100 Base-T (IEEE 802.3) • 100 Base VG - Anylan • 100 Mbps TP-PMD (ANSI X3T9.5) • 1000 Base-T (Gigabit Ethernet) • 4/16 Mbps Token Ring (IEEE 802.5) • 52/155 Mbps ATM • Broadband and baseband analogue video • Digital video <p>Supports full and half duplex operation</p>	<p>COMPLIANCES</p> <p>ANSI/TIA/EIA 568-B.2 (Cat5e) ANSI/ICEA S-90-661 (Cat5e) AS/NZS 3080 (Class D) ISO/IEC 11801 NEMA WC 63.1 (Cat 5e) UL Listed Type CMR UL Verified (Cat5e) AS/ACIF S008</p> <p>CONDUCTOR</p> <p>Annealed Copper</p> <p>INSULATION</p> <p>Polyolefin Pair 1 – BLUE / WHITE/blue Pair 2 – ORANGE / WHITE/orange Pair 3 – GREEN / WHITE/green Pair 4 – BROWN / WHITE/brown</p> <p>SHEATH</p> <p>Flame Retardant PVC (Blue) to AS/NZS 380</p>
--	---

Item Number	Nominal Overall Diameter mm	Conductor		Approx. Mass kg/km
		Number of Pairs	Number & Diameter of Wires (No./mm)	
24170021	5.3	4	1/0.51	35

Cable available in Reelex boxes and wooden ply reels

Electrical Characteristics			
Property		Value	Units
Conductor Resistance @ 20°C		9.38	Ω/100m
Maximum d.c. Resistive Unbalance	Individual Pair	3%	
Mutual Capacitance (max)		5.6	nF/100m
Characteristic Impedance	1.0-100 MHz	100±15	Ω
Maximum Delay Skew		45	ns/100m
Max Propagation Delay		545	ns/100m
Velocity of Propagation		69%	Speed of Light

Frequency	Attenuation	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	Return Loss
MHz	dB/100m (max)	dB (min)	dB (min)	dB (min)	dB (min)	dB (min)
0.772	1.8	67.0	64.0	66.0	63.0	-
1	2.0	65.3	62.3	63.8	60.8	20.0
4	4.1	56.3	53.3	51.8	48.8	23.0
8	5.8	51.8	48.8	45.7	42.7	24.5
10	6.5	50.3	47.3	43.8	40.8	25.0
16	8.2	47.2	44.2	39.7	36.7	25.0
20	9.3	45.8	42.8	37.8	34.8	25.0
25	10.4	44.3	41.3	35.8	32.8	24.3
31.25	11.7	42.9	39.9	33.9	30.9	23.6
62.5	17.0	38.4	35.4	27.9	24.9	21.5
100	22.0	35.3	32.3	23.8	20.8	20.1

Note: Conformance testing of Impedance, Return Loss, Attenuation, NEXT, PS-NEXT, ELFEXT and PS-ELFEXT is based on swept measurements.
Input impedance values specified are based on swept frequency cable measurements per ISO/IEC 11801. No curve fitting or smoothing functions are used.

These cables are not to be regarded as power cables or for the direct connection of equipment to mains power supplies
Values are nominal unless otherwise specified.

DOMINION WIRE & CABLES LTD.

QUALITY CABLE MANUFACTURES, DISTRIBUTORS AND EXPORTERS

LOT 3, KINGS ROAD, YALALEVU, BA. P.O. BOX 1562, BA, FIJI.

PHONE: (679)6675244 FAX: (679)6670023,

E-Mail: sales@dominioncables.com

web www.dominioncables.com

Dominion Cables is a leader in the Cable Industry. The services of sales and technical staff are always available to assist with any enquiry.
The Dominion Cables policy is one of continual improvement. Details as published may be subject to change.

This brochure is distributed with the understanding that the authors and editors are not responsible for the results of any action taken on the basis of information in this work, or any errors or omissions. Further, Dominion Cables is not engaged in rendering professional services. Dominion Cables expressly disclaims all and any liability to any person in respect of anything and of the consequences of anything done or omitted to be done by any such person in reliance whether whole or partial of the whole or any part of the contents of this publication. All rights reserve