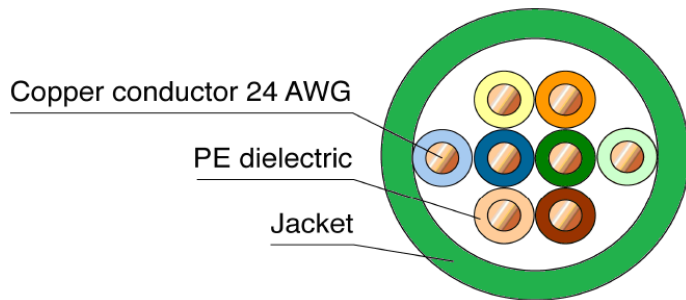


# 3M™ Volition™

## U/UTP Category 5e cables

### VOL-5EUP4 / VOL-5EUL4



3M™ Volition™ Category 5e U/UTP Cables offer the possibility to deploy unshielded Category 5e/Class D systems when installed with 3M™ Volition™ K5E RJ45 Jacks.

- Conductor Diameter:  
AWG 24 (Ø 0.50 +/- 0.015mm)
- Insulation Diameter:  
PE Ø 0.90 +/- 0.05 mm
- Cable assemblies: pairs
- Sheath material: PVC or LSOH
- Colour: green or white

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#### Mechanical Features

Maximum cable diameter	(mm)	4.90 +/- 0.30
Bending Radius	(mm)	
	Dynamic (installation) / Static (installed)	≥ 8x outer diameter / ≥ 4x outer diameter
Temperature Range	In service / Installation, Transport and Storage	-20°C +60°C / 0°C +50°C

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#### Electrical Features at 20°C

DC Resistance	max 9.38 Ω/100m
Resistance Unbalance	≤ 2 %
Insulation Resistance (500 V)	≥ 5000 M Ω/km
Mutual capacitance	nom. 5.1 nf / 100 m at 1 kHz
Test Voltage (DC, 1 min)	1 kV / 1m
Capacitance Unbalance (pair to ground)	max. 160 pf / 100 m at 1 kHz
VPN (nominal)	67%

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## Standards

Cables	Cabling System Standard	Fire Rating
IEC 61156-5 ed. 2 ANSI/TIA 568-C.2	ISO/IEC11801 ed.2	LSZH: IEC 60332-1 PVC: IEC 60332-1

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## Applications

IEEE 802.3: 100Base-T; 10Base-T  
IEEE 802.5 : 4/6 Mbps Token Ring  
155 / 662 Mbps ATM

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## Ordering Information

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## Ref. No.



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### 3M™ Volition™ Category 5e U/UTP Cables

305m box, PVC, green

305m box, LS0H, green

305m box, LS0H, white

VOL-5EUP4-305

VOL-5EUL4-305

VOL-5EUL4-305W

## Important Notice

The details contained in this literature have been carefully prepared from information available to 3M at the time of its production. However, it is not intended to be relied upon for purposes of product specification and you should contact your sales representative if specification details are required. Because of the wide variety of processes and conditions in which these products may be used, the user should first carry out tests to determine the suitability of the products for the particular use intended. All questions of warranty and liability relating to 3M products are governed by the selling 3M subsidiary's Terms of Sale subject where applicable to the prevailing law.  
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