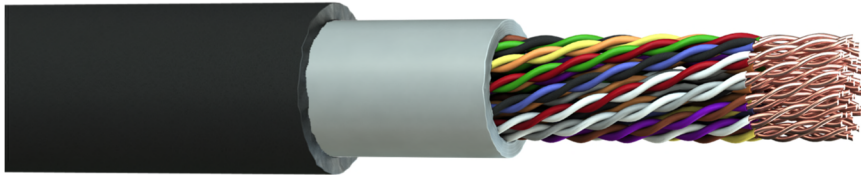


**Part No:** C525D  
**Description:** Cat 5E multipair offers substantial benefits in terms of cost and space with significantly reduced installation times. The additional PE Jacket make it the ideal choice for running through ducts and other external applications.

### Construction

**Conductor** Bare Copper  
**AWG** 24(1)  
**Insulation Material** High Density Polyethylene (HDPE)  
**Number of Pairs** 25  
**Pair Identification** TIA 568  
**Inner Sheath Material** Polyvinyl Chloride (PVC), Grey  
**Outer Sheath Material** Low Density Polyethylene (LDPE), Black

### Electrical Characteristics

**Max. Conductor Resistance @ 20°C**  $\leq 9.5 \Omega/100m$   
**Max. Resistance Unbalanced**  $\leq 2.5 \%$   
**Nominal Impedance (1-100MHz)**  $100 \pm 15 \Omega$   
**Insulation Resistance**  $5000M\Omega/km$   
**Capacitance Unbalanced to Earth**  $\leq 300 pF/ 100m$   
**NVP** 68 %  
**Max. Delay Skew**  $\leq 45 nS/ 100m$   
**Voltage Rating EN 50525-1** 450/750V\*  
**Test Voltage** 2.5kV (AC)

### Physical Characteristics

**Overall Diameter**  $13.5 \pm 0.3mm$   
**Bend Radius** Fixed 6 x OD, Flexing 10 x OD  
**Temperature Rating** Fixed -20°C to 60°C, Flexing 0°C to 60°C  
**Weight** 278 kg/km

### Transmission Performance

Frequency	1	4	10	16	20	31.25	62.5	100	MHz
Attenuation	2.1	3.9	6.2	7.9	8.9	11.2	16.2	21.0	dB
Return Loss	19.0	19.0	19.0	19.0	19.0	17.1	14.1	12.0	dB
NEXT	60.0	54.8	48.5	45.2	43.7	40.5	35.7	32.3	dB
PS NEXT	57.0	51.8	45.5	42.2	40.7	37.5	32.7	29.3	dB
ACRF	58.6	46.6	38.6	34.5	32.6	28.7	22.7	18.6	dB
PSACRF	55.6	43.6	35.6	31.5	29.6	25.7	19.7	15.6	dB

### Standards

**RoHS2 Compliance** Yes **UV Resistance** Good, ISO 4892-3†  
**CE Compliant** LVD (2014/35/EU) **Weather Resistance** Good, ISO 4892-3†  
**Manufactured in accordance to** TIA/EIA 568-C.2, ISO/IEC 11801

\*Suitable for installation where Band II 450/750v cables are present. Not suitable for connection to mains supply  
 †500 hour test duration, equivalent to 9-12 months of northern Europe climate.

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ISO 9001:2015 Certificate Number: DAS94272226/0/Q

**Part Number:** C525D  
**Date:** 30/10/2017  
**Revision:** 1.2  
**Author:** Checked:  
**Page Number:** 1 of 1