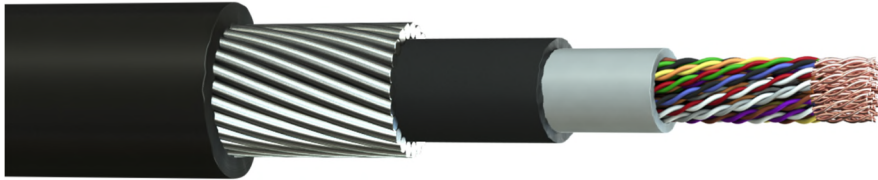


**Part No:** C525A  
**Description:** The TruLan Cat 5E 25 Pair U/UTP armoured cable is the ideal choice for high speed data networks and is suitable for external applications and running through ducting or directly burying.

### Construction

Conductor : Bare Copper  
 AWG : 24(1)  
 Insulation Material : High Density Polyethylene (HDPE)  
 Number of Pairs : 25  
 Pair Identification : See Table  
 1<sup>st</sup> Inner Sheath Material : Polyvinyl Chloride (PVC)  
 1<sup>st</sup> Inner Sheath Colour : Grey  
 2<sup>nd</sup> Inner Sheath Material : Polyethylene (PE)  
 2<sup>nd</sup> Inner Sheath Material : Black  
 Armour : Galvanised Steel Wire Armour (SWA)  
 Outer Sheath Material : Polyethylene (PE)  
 Outer Sheath Colour : Black

### Electrical Characteristics

Max. Conductor Resistance @ 20°C : ≤ 9.5 Ω/100m  
 Max. Resistance Unbalanced : ≤ 2.5 %  
 Nominal Impedance (1-100MHz) : 100 ± 15 Ω  
 Mutual Capacitance : ≤ 5.6nF/100m  
 Capacitance Unbalanced to Earth : ≤ 330 pF/ 100m  
 NVP : 68.5 %  
 Max. Delay Skew : ≤ 45 nS/ 100m  
 Voltage Rating EN 50525-1 : 450/750V\*  
 Test Voltage : 2.5kV (AC)  
 \*Suitable for installation where Band II 450/750v cables are present. Not suitable for connection to mains supply

### Physical Characteristics

Overall Diameter : 17.7 ± 0.8mm  
 Bend Radius : Fixed 4 x OD Flexing 8 x OD  
 Temperature Rating : Fixed -20°C to 60°C Flexing -10°C to 60°C  
 Weight : 598 kg/km

### Transmission Performance

| Frequency   | 1    | 4    | 10   | 16   | 20   | 31.25 | 62.5 | 100  | MHz  |
|-------------|------|------|------|------|------|-------|------|------|------|
| Attenuation | 2.1  | 3.90 | 6.2  | 7.90 | 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

RoHS3 Compliance : Yes | CE Compliant : LVD (2014/35/EU)

**Part No:** C525A

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## Colour Code

| Pair No. |               |        |
|----------|---------------|--------|
| 1        | White-Blue    | Blue   |
| 2        | White-Orange  | Orange |
| 3        | White-Green   | Green  |
| 4        | White-Brown   | Brown  |
| 5        | White-Grey    | Grey   |
| 6        | Red-Blue      | Blue   |
| 7        | Red-Orange    | Orange |
| 8        | Red-Green     | Green  |
| 9        | Red-Brown     | Brown  |
| 10       | Red-Grey      | Grey   |
| 11       | Black-Blue    | Blue   |
| 12       | Black-Orange  | Orange |
| 13       | Black-Green   | Green  |
| 14       | Black-Brown   | Brown  |
| 15       | Black-Grey    | Grey   |
| 16       | Yellow-Blue   | Blue   |
| 17       | Yellow-Orange | Orange |
| 18       | Yellow-Green  | Green  |
| 19       | Yellow-Brown  | Brown  |
| 20       | Yellow-Grey   | Grey   |
| 21       | Violet-Blue   | Blue   |
| 22       | Violet-Orange | Orange |
| 23       | Violet-Green  | Green  |
| 24       | Violet-Brown  | Brown  |
| 25       | Violet-Grey   | Grey   |