



BULK CAT5e CABLE External Grade

Steel Wire Armoured Cat5e Solid UTP LSZH

The main advantage of this cable is that it has Steel Wire Armour (SWA) which makes it suitable for all external applications even in the harshest of environments. As well as being tough enough to pull through ducts, directly bury in the ground or install in any environment susceptible to vandalism, the cable also protects against moisture and is extremely rodent resistant. The outer sheath is also low smoke zero halogen making it safe to install internally too.

APPLICATIONS

- Direct burial
- Harsh Environments

FEATURES

- LSZH sheath
- Armour Provides maximum rodent protection
- Excellent crush resistance

BENEFITS

- Suitable for external and internal installations
- Can be installed vertically

OPTIONS

- Available cut to your required length

SPECIFICATIONS

Cable Characteristics

Installation Temperature Range:	-0 °C to +50 °C
Operating Temperature Range:	-20 °C to +60 °C
Minimum Installation Bend Radius:	12x diameter (10.8cm)
Minimum Installed Bend Radius:	8x diameter (7.2cm)
Fire Propagation:	IEC 60332-1
Max Reel Size:	1000m
Approximate Weight:	175kg per km

Electrical Characteristics (@ +20°C)

DC Conductor Loop Resistance:	19 Ω /100m
Max DC Resistance Unbalanced:	2%
Nominal Capacitance:	50pF/m
Max Capacitance Unbalance:	1600 pF/m
Characteristic Impedance (1 – 20MHz):	100 ± 12 Ω
Characteristic Impedance (20-1000MHz):	100 ± 15 Ω
Nominal Velocity of Propagation:	66%
Insulation Resistance (500V):	2000Mohm

Armoured Ca5e UTP cross section

Steel wire armour provides good mechanical protection, which means the cable can withstand higher stresses, be buried directly and be used in external or underground projects. SWA can also withstand higher pulling loads lowering the chance of the cable being broken during installation.

TERMINATION

The conductors are solid core so are not suitable for termination directly into a standard RJ45 plug. Some kind of IDC punch down is required; options vary and what is best for you depends of your specific application. If you need to convert to a standard and flexible patch cable, you could use a RJ45 socket/outlet, or an IDC connection box.



Nominal Diameters

23AWG PAC Solid Conductor	0.50mm
Polyolefin Insulation	0.90mm
Pairing	1.80mm
Lay Up	4.36mm
Inner Sheath	4.75mm
Armour: GSWA 0.90mm	6.55mm
Black LSZH Outer Sheath	9.00mm

Universal Part Number

TPC5-LSSOL-SWA

Cut to order

any length up to 1km

