

100 Pair Cables



CopperOn VOICE cables consist of 0.51mm Polyolefin insulated conductors formed into one or more units of twisted pairs. The units are identified with coloured binders and are assembled to form the cable core. The core may be protected with one or more layers of dielectric material and is covered by a protective LSHF sheath.

PRODUCT CHARACTERISTICS:

Core:

Conductor:	Annealed copper, 0.51mm Diameter
Insulation:	Polyolefin
Cabling Element:	Twisted Pair

Final Assembly:

Core Stranding:	100 pair units
Binder:	Wrapped with polyester tape, 100% coverage
Sheath:	LSHF compound

ELECTRICAL CHARACTERISTICS (@ 20°C):

- »» - Conductor Resistance: Max 9.38 Ω s / 100m
- »» - Max. Attenuation:
 - 1 MHz 2.6 dB / 100 m
 - 4 MHz 5.6 dB / 100 m
 - 8 MHz 8.5 dB / 100 m
 - 10 MHz 9.7 dB / 100 m
 - 16 MHz 13.1 dB / 100 m
- »» - Mutual Capacitance: 6.6 nF / 100m 1 KHZ
- »» - Capacitance Unbalance: 330 pF / 100m KHz
- »» - Characteristic Impedance: 100 +/- 15 Ω s
- »» - NEXT (Max dB Power Sum in 25 pair units):
 - 1 MHz 41 dB
 - 4 MHz 32 dB
 - 8 MHz 27 dB
 - 10 MHz 26 dB
 - 16 MHz 23 dB
- »» - Conformance: Category 3 ANSI/EIA/TIA 568C

Product Part Numbering

Product Part Numbering	C3U100PRHF1
Outer Sheath	LSHF
Cable Weight	550 kg/km
Outer Diameter (nom)	18.0 mm
Sheath Colour	Grey RAL 7035
Fire Safety Rating	IEC 60332-1