

Cable Standards

The cable is compliant with:

- ISO 61156-5 ed 2, ANSI/TIA/EIA 568C and the draft standard EN 50288-11-1

The cable is fully backwards compatible with Category 5 and Category 6 systems

Brand-Rex Copper Cables - 10GPlus

Communication Cable, U/UTP, 100 Ω, 4x2,AWG23/1

Electrical Characteristics @ 20°C	Specification	Typical Performance
Conductor Loop Resistance	Max 19Ω / 100m	Max 19Ω / 100m
Conductor Resistance Unbalance	Max 2%	0.5%
Dielectric Strength	1.0KV dc or 0.7KV ac for 1 min	100% in process test
Insulation Resistance	>500 MΩ.km @ 100-500 V test voltage	>5 GΩ.km
Capacitance Unbalance to Earth	<120 pF/100m	40 pF/100m
Velocity of Propagation	<534 nsec/100m @ 100Mhz	<490 nsec/100m @ 100Mhz (NVP for hand testers = 0.67)
Skew	Max 40ns/100m @ 100Mhz	Max 30ns/100m @ 100Mhz
Mean Characteristic Impedance	100+/-5 Ω @ 100Mhz	100+/-5 Ω @100Mhz
Coupling Attenuation up to 1Ghz	Min 40dB	56dB

Characteristic	Typical Headroom vs Cat6 (250MHz)	Typical Headroom vs AC6 (500MHz)
Return Loss	5dB	5dB
Insertion Loss	6%	2%
NEXT	10dB	10dB
PSNEXT	10dB	20dB
ELFEXT	12dB	12dB
PSELFEXT	12dB	12dB
PSANEXT	NA	5dB
PSAELFEXT	NA	6dB

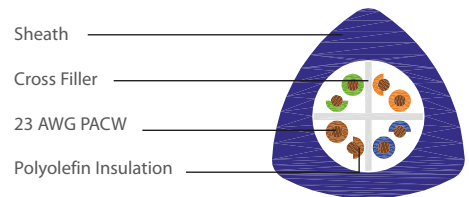
Typical headroom on key S/N characteristics - for information only

	Typical Headroom vs Cat6 (250MHz)	Typical Headroom vs AC6 (500MHz)
PSACR-N @ 500MHz	NA	0dB
PSAACR-N* @ 500MHz	NA	13dB

* Power Sum Attenuation to Alien Crosstalk (near end) Ratio
The Alien crosstalk performance of cables is assessed using a '6 round 1' or '4 on a drum' method.

Product Part Numbering

Part Number	Length (m)	Cable type	Colour	Nominal Cable Diameter (mm)	Nominal Weight (Kg/Km)	Calorific Value kWh/m	Fire Safety Rating
AC6U-HF1-500VT	500	LSHF	Violet	8.5	79	0.32	IEC 60332-1-2
AC6U-HF1-1000VT	1000						
AC6U-HF3-500BU	500	LSHF	Blue	8.5	81	0.42	IEC 60332-3-24
AC6U-HF3-1000BU	1000						



Independent 3rd Party Certification (3P)

PRODUCT DESCRIPTION:

10GPlus U/UTP, 100 Ω, 4x2,AWG23/1 is a premium grade Class EA / Augmented Category 6 cable to support 10 Gigabit Ethernet protocol for installation in horizontal and backbone applications.

PRODUCT PERFORMANCE:

Core

- Conductor: 23 AWG Plain Annealed Copper Wire
- Insulation: Polyolefin
- Diameter: 1.06mm Nominal
- Pair: 2 of the above cores
- Pair Colour: Blue - White, Orange - White, Green - White, Brown - White

Final Assembly

- Cable: 4 of the above pairs cabled together around a cross filler
- Sheath: LSHF compound

Mechanical and Environmental

- Temp - Installation: 0C to 50C
- Temp - Operation: -20C to 75C
- Max Tensile Load: 10kg per cable
- Min Bend Radius: 8 x Effective Diameter (installation)
- Min Bend - Operation: 4 x Effective Diameter (operation)

Halogen Free cable types (LSHF) meet IEC 60754-1 and IEC 61034