

Cable Standards

The cable is compliant with:

- ISO/IEC 61156-5, EN 50288-2-1 and ANSI/TIA/EIA 568C

Brand-Rex Copper Cables - GigaPlus

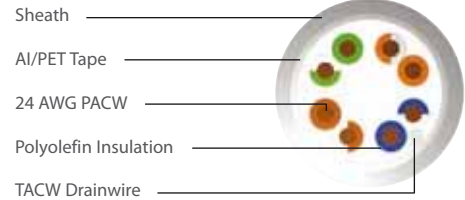
Communication Cable, F/UTP, 100 Ω, 4x2xAWG 24/1

Electrical Characteristics @ 20°C	Specification	Typical Performance
Conductor Loop Resistance	Max 19 Ω / 100m	16 Ω / 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	>500MΩ.km @ 100-500 V test voltage	>5 GΩ.km
Capacitance Unbalance to Earth	Max 160 pF/100m	40 pF/100m
Velocity of Propagation	<537.6 nsec/100m @ 100MHz	496 nsec/100m @ 100MHz (NVP for hand held testers = 0.68)
Skew	Max 40 nsec/100m @ 100MHz	25 nsec/100m @ 100MHz
Mean Characteristic Impedance	100 Ω +/- 5 Ω @ 100MHz	100 Ω +/- 3 Ω @ 100MHz
Transfer Impedance	Max 100 mΩ/m @ 100 MHz	30 mΩ/m @ 10MHz (ISO 61156 grade 2 cable)
Coupling Attenuation up to 1Ghz	Min 55 dB	75 dB

Frequency (MHz)	1	4	10	16	20	31.25	62.5	100	155	200	250
Insertion Loss (dB / 100m)	Spec	2.1	4.0	6.3	8.0	9.0	11.4	16.5	21.4	na	na
	Typical	2.0	3.8	6.0	7.6	8.6	10.8	15.8	20.4	26.1	30.3
NEXT (dB)	Spec	65.3	56.3	50.3	47.2	45.8	42.9	38.4	35.3	na	na
	Typical	73.3	64.3	58.3	55.2	53.8	50.9	46.4	43.3	40.4	38.3
PSNEXT (dB)	Spec	62.3	53.3	47.3	44.2	42.8	39.9	35.4	32.3	na	na
	Typical	70.3	61.3	55.3	52.2	50.8	47.9	43.4	40.3	37.4	35.8
ELFEXT (dB / 100m)	Spec	63.8	51.8	43.8	39.7	37.8	33.9	27.9	23.8	na	na
	Typical	78.8	66.8	58.8	54.7	52.8	48.9	42.9	38.8	35.0	32.8
PSELFEXT (dB / 100m)	Spec	60.8	48.8	40.8	36.7	34.8	30.9	24.9	20.8	na	na
	Typical	76.8	64.8	56.8	52.7	50.8	46.9	40.9	36.8	33.0	30.8
Return Loss (dB / 100m)	Spec	na	23.0	25.0	25.0	25.0	23.6	21.5	20.1	na	na
	Typical	25.0	28.0	30.0	30.0	30.0	28.6	26.5	25.1	23.8	23.0
ACR (dB / 100m)	Typical	71.3	60.5	52.3	47.6	45.2	40.0	30.6	22.9	14.3	8.5
PSACR (dB / 100m)	Typical	68.3	57.5	49.3	44.6	42.2	37.0	27.6	19.9	11.3	5.5

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
GPF-Rlx-305GY	305	PVC	Grey	5.9	37	0.14	IEC 60332-1-2
GPF-500GY	500						
GPF-1000GY	1000						
GPF-D500GY	500	PVC	Grey	12.1 x 6.0	75	0.29	IEC 60332-1-2
GPF-D1000GY	1000						
GPF-HF1-Rlx-305VT	305						
GPF-HF1-500VT	500	LSHF	Violet	5.9	37	0.12	IEC 60332-1-2
GPF-HF1-1000VT	1000						
GPF-HF1-D500VT	500						
GPF-HF1-D1000VT	1000	LSHF	Violet	12.1 x 6.0	78	0.25	IEC 60332-1-2
GPF-HF3-500BU	500						
GPF-HF3-1000BU	1000						
GPF-HF3-D500BU	500	LSHF	Blue	6.5	46	0.19	IEC 60332-3-24
GPF-HF3-D1000BU	1000						
GPF-X-500BK	500						
GPF-X-1000BK	1000						
GPF-HF1-X-500BK	500						
GPF-HF1-X-1000BK	1000	PE	Black	7.4	49	0.26	N/A



Independent 3rd Party Certification (3P)

PRODUCT DESCRIPTION:

GigaPlus F/UTP 100 Ω 4x2xAWG 24/1 premium grade Class D/Cat5e cable to support Gigabit Ethernet protocol combined with good EMI/RFI protection for installations in horizontal and backbone areas.

PRODUCT PERFORMANCE:

Core

- Conductor: 24 AWG Plain Annealed Copper Wire
- Insulation: Polyolefin
- Diameter: 1.07mm 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
- Binder: Wrapped with polyester tape, 100% coverage
- Drainwire: 0.5mm Tinned Annealed Copper Wire
- Tape Screen: Wrapped with aluminium polyester tape applied metal side in
- Sheath: PVC or LSHF compound

Mechanical and Environmental

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