



APPLICATION

Enhanced thermal performance for all PoE applications, Advantageous where heat dissipation is of prime importance, Possibility of engineered links for high bandwidth applications, Compliance with low voltage safety earth-connection and grounding regulations, Optimized for IEEE 802.3bt 4PPoE, High bandwidth digital application with low BER. High data rates, Data processing and information systems, indoor use fixed installations

GENERAL CONSTRUCTION

Four individually aluminum foil shielded twisted pairs, cabled together, overall braid shielded and jacketed

Outer Jacket Material: FR- LSZH

Outer Diameter: 8.7mm

APPLICABLE STANDARDS

IEC 61156-5, IEC 61156, IEEE 802.3at (PoE+), ISO/IEC 11801-1, RoHS 3 2015/863/EU

FLAMMABILITY RATING

IEC 60332-1, UL 1581 VW-1

DESIGN & MATERIALS

Conductor Material	Annealed Bare Copper
Conductor Size	22 AWG
Conductor Size	0.64 mm
Conductor Construction	Solid
Insulation Material	Cellular PO
Insulation O.D.	1.56 mm nom.
Color Code	Per TIA/EIA 568-B
Ind. Shield Material	Aluminum/Polyester Foil
Ind. Shield Design	Helically applied aluminum foil, 100% coverage
Conductor unit lay-up	Pairs
Overall Shield Design	Braid
Overall Shield Material	Tinner-copper braid
Overall Braid Shield	Yes
Overall Braid Material	Annealed Tinned Copper
Braid Coverage	50% nom.
Overall Drain-wire Material	Annealed Tinned Copper
Overall Drain-wire size	0.4mm
Total number of conductors	8

ELECTRICAL PROPERTIES

Freq MHz	Attenuation dB/100m 20°C	NEXT dB	PS NEXT, dB	RL, dB	PS ANEXT dB	PS ELFEXT dB	ELFEXT dB
1	1.9	90	87	23	70	95	98
4	3.4	90	87	23	70	90	93
10	5.4	90	87	23	70	86	89
20	6.8	90	87	23	70	80	83
30	9.3	90	87	23	70	78	79
54.1	12.7	90	87	23	70	66	69
62.5	13.7	89.1	86.1	23	70	63	66
100	17.5	86	83	23	70	60	63
200	25.3	81.5	78.5	23	68	58	61
300	31.5	78.8	75.8	23	65	52	55
600	46.3	74.3	71.3	20	65	49	52
900	58.4	71.7	68.7	18.2	65	47	50
1000	62	71	68	17.8	65	45	48
1200	69	69.8	66.8	17	65	39	42

Frequency Range	1 - 1200 MHz
Impedance	100 Ω
Transfer Impedance	Grade 1
Coupling Attenuation	Type I
Max. DC Resistance	57 Ω/km@20°C
Max. Resistance Unbalance	2 %
Capacitance	44 pF/m
Capacitance Unbalance	1.2 pF/m max.
Propagation Delay Skew	20 ns/100m max.
Dielectric Strength	700 V/minute
Dielectric Strength to Shield	700 V/minute
Min. Insulation Resistance	5 GΩ•km
Min. Bend Radius	70 mm
Max. Operating Temperature	+70 °C
Min. Operating Temperature	-30 °C

ORDERING

Part Number	Product Description
SSTP4-C8-SOLID-INDOOR-LSZH	Shielded twisted pair (SSTP), 4 pairs, category 8, solid, internal (INDOOR), 22 AWG, LSZH