

PTS1P-HMQR

PTS1-50-P SureFlex® Jumper with interface types 4.3-10 Male and QMA Male Right angle, Variable Length



- WARNING: DO NOT MATE WITH 4.1-9.5 DIN

Product Classification

Product Type	Cable assembly, plenum
Product Series	PTS1-50-P

General Specifications

Body Style, Connector A	Straight
Body Style, Connector B	Right angle
Interface, Connector A	4.3-10 Male
Interface, Connector B	QMA Male
Specification Sheet Revision Level	A
Variable Length	For custom lengths contact 828-324-2200 or 1-800-982-1708 (toll free), or your local CommScope representative

Dimensions

Length	0 m 0 ft
Nominal Size	1/4 in

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
700–3000 MHz	1.222	20.01

Jumper Assembly Sample Label

PTS1P-HMQR



Environmental Specifications

Immersion Test Method

Meets IEC 60529:2001, IP68 in mated condition

Included Products

PTS1-50-P

- PTS1-50, HELIAX® Superflexible High Power, High Temperature 50 Ohm Plenum Rated Coaxial Cable, corrugated copper, 1/4 in, white FR-PVC jacket.

PTS1-50-P



PTS1-50, HELIAX® Superflexible High Power, High Temperature 50 Ohm Plenum Rated Coaxial Cable, corrugated copper, 1/4 in, white FR-PVC jacket.

Product Classification

Product Type	Coaxial wireless cable
Product Brand	HELIAX®
Product Series	PTS1-50-P

General Specifications

Flexibility	Superflexible
Jacket Color	White
Performance Note	Attenuation values typical, guaranteed within 5%

Dimensions

Diameter Over Dielectric	4.826 mm 0.19 in
Diameter Over Jacket	7.366 mm 0.29 in
Inner Conductor OD	1.88 mm 0.074 in
Outer Conductor OD	6.35 mm 0.25 in
Nominal Size	1/4 in

Electrical Specifications

3rd Order IMD	-107 dBm
3rd Order IMD Test Method	Two +43 dBm carriers
Cable Impedance	50 ohm \pm 1 ohm
Capacitance	80.7 pF/m 24.597 pF/ft
dc Resistance, Inner Conductor	6.234 ohms/km 1.9 ohms/kft
dc Resistance, Outer Conductor	6.562 ohms/km 2 ohms/kft
dc Test Voltage	1600 V

PTS1-50-P

Inductance	0.207 μ H/m 0.063 μ H/ft
Insulation Resistance	100000 MOhms-km
Jacket Spark Test Voltage (rms)	4000 V
Operating Frequency Band	1 – 20000 MHz
Peak Power	6.4 kW
Velocity	82 %

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
680–960 MHz	1.222	20.01
1700–2200 MHz	1.222	20.01
2200–2700 MHz	1.222	20.01

Material Specifications

Dielectric Material	Foam FEP
Jacket Material	Fire retardant PVC
Inner Conductor Material	Silver-plated copper wire
Outer Conductor Material	Corrugated copper

Mechanical Specifications

Minimum Bend Radius, multiple Bends	25.4 mm 1 in
Minimum Bend Radius, single Bend	25.4 mm 1 in
Number of Bends, minimum	15
Number of Bends, typical	20
Tensile Strength	68 kg 149.914 lb
Bending Moment	0.8 N-m 7.081 in lb
Flat Plate Crush Strength	1.8 kg/mm 100.795 lb/in

Environmental Specifications

Operating Temperature	-40 °C to +75 °C (-40 °F to +167 °F)
Storage Temperature	-40 °C to +75 °C (-40 °F to +167 °F)
Attenuation, Ambient Temperature	68 °F 20 °C
Average Power, Ambient Temperature	104 °F 40 °C
Average Power, Inner Conductor Temperature	392 °F 200 °C

PTS1-50-P

Fire Retardancy Test Method

NFPA 262/CMP | UL 910/CATVP

Packaging and Weights

Cable weight

0.1 kg/m | 0.067 lb/ft

Regulatory Compliance/Certifications

Agency

ISO 9001:2015

Classification

Designed, manufactured and/or distributed under this quality management system

