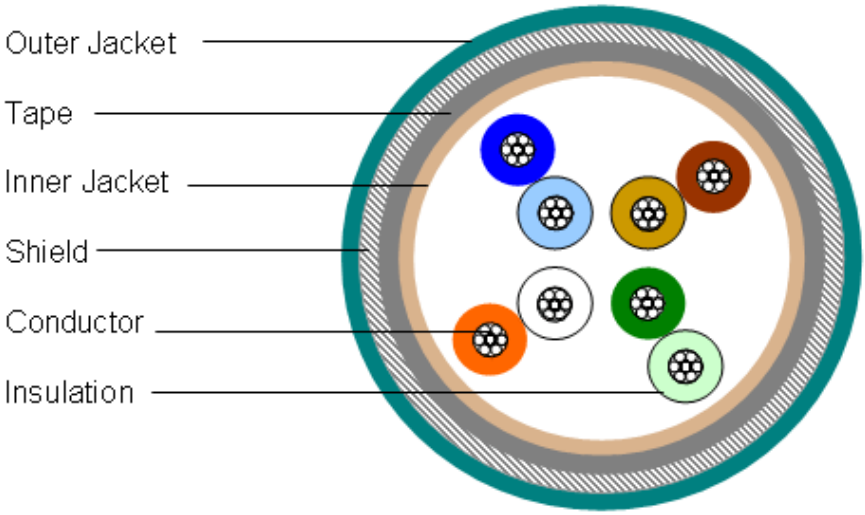
Product Specifications

COMMSCOPE®

4602106/10 | 2004 ICAT5E TEAL REEL

Sunlight and Oil Resistant Category 5e F/UTP 2004 Flexible Cable, non-plenum, teal jacket, 4 pair count, 1000 ft (305 m) length, reel

Cross Section Drawing



Construction Materials

Jacket Material	PVC
Conductor Material	Tinned copper
Inner Jacket Material	PVC
Insulation Material	Polyolefin
Shield (Braid) Coverage	65 %
Shield (Braid) Material	Tinned copper
Shield (Tape) Material	Aluminum/Polypropylene/Aluminum tape

Dimensions

Cable Length	305 m | 1000 ft
Cable Weight	44.97 lb/kft
Diameter Over Inner Jacket	6.096 mm | 0.240 in
Diameter Over Jacket	8.001 mm | 0.315 in
Diameter Over Shield (Tape)	6.909 mm | 0.272 in
Inner Jacket Thickness	0.762 mm | 0.030 in
Jacket Thickness	0.508 mm | 0.020 in

Electrical Specifications

ANSI/TIA Category	5e
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	9.38 ohms/100 m
Delay Skew, maximum	45 ns
Mutual Capacitance	5.6 nF/100 m @ 1 kHz

©2017 CommScope, Inc. All rights reserved. All trademarks identified by ® or ™ are registered trademarks, respectively, of CommScope.
All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: April 12, 2017

Nominal Velocity of Propagation (NVP)	69 %
Operating Frequency, maximum	100 MHz
Transmission Standards	ANSI/TIA-568-C.2
Safety Voltage Rating	300 V
Dielectric Strength, minimum	1500 Vac | 2500 Vdc

Environmental Specifications

Environmental Space	Non-plenum
Flame Test Method	CMR
Installation Temperature	0 °C to +60 °C (+32 °F to +140 °F)
Operating Temperature	-40 °C to +75 °C (-40 °F to +167 °F)

General Specifications

Cable Type	F/UTP (shielded)
Pairs, quantity	4
Application	Industrial
Cable Component Type	Cordage
Packaging Type	Reel
Brand	CommScope®
Jacket Color	Teal
Product Number	2004
Conductor Gauge, singles	24 AWG
Conductor Type, singles	Stranded
Conductors, quantity	8

Mechanical Specifications

Pulling Tension, maximum	11 kg | 25 lb

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

RoHS COMPLIANT

©2017 CommScope, Inc. All rights reserved. All trademarks identified by ® or ™ are registered trademarks, respectively, of CommScope.
All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: April 12, 2017

Electrical Performance

Std	Refers to the standard value listed under Transmission Standards in the Electrical Specifications above
IL	Insertion Loss (dB/100m)
NEXT	Near End Crosstalk (dB/100m)
ACR	Attenuation to Crosstalk Ratio (dB/100m)
PSNEXT	Power Sum Near End Crosstalk (db/100m)
PSACR	Power Sum Attenuation to Crosstalk Ratio (dB/100m)
ACRF	Attenuation to Crosstalk Ratio - Far End (dB/100m)
PSACRF	Power Sum Attenuation to Crosstalk Ratio – Far End (dB/100m)
RL	Return Loss (dB)

Freq. MHz	IL	NEXT	ACR	PSNEXT	PSACR	ACRF	PSACRF	RL
	Std	Std	Std	Std	Std	Std	Std	Std
1	2.4	65.3	62.9	62.3	59.9	63.8	60.8	20.0
4	4.9	56.3	51.4	53.3	48.4	51.8	48.8	23.0
8	6.9	51.8	44.8	48.8	41.8	45.7	42.7	24.5
10	7.8	50.3	42.5	47.3	39.5	43.8	40.8	25.0
16	9.9	47.2	37.3	44.2	34.3	39.7	36.7	25.0
20	11.1	45.8	34.7	42.8	31.7	37.8	34.8	25.0
25	12.5	44.3	31.8	41.3	28.8	35.8	32.8	24.2
31.25	14.1	42.9	28.8	39.9	25.8	33.9	30.9	23.3
62.5	20.4	38.4	17.9	35.4	14.9	27.9	24.9	20.7
100	26.4	35.3	8.9	32.3	5.9	23.8	20.8	19.0

©2017 CommScope, Inc. All rights reserved. All trademarks identified by ® or ™ are registered trademarks, respectively, of CommScope.
All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: April 12, 2017