



Power your cameras anywhere with **GenSPEED[®] 6 Category 6 MAX**

Dome Cameras



Panoramic Cameras



Box Cameras



Power and Connect Cameras Over MAX

Unlock the freedom of positioning cameras with our Extended Distance Cat6 MAX cable. Whether you are securing large facilities, covering wider outdoor areas, or need flexibility in camera placement, Prysmian's 22 AWG Cat6 MAX cable ensures reliable, uninterrupted power over long distance. Say goodbye to limitations and hello to seamless surveillance, wherever you need it!

Originally developed in 2015, MAX is the perfect solution for Power over Ethernet (PoE) applications and high-wattage cameras. Traditional Cat6 cables limit run distances to 100 meters, but MAX exceeds those distances by delivering 1 Gbps up to 200 meters without data transmission issues.

- 1 Gbps @ up to 200M
- Certifiable by Third Party Testers
- Fewer Terminations
- Better Attenuation/signal-loss
- Guaranteed to perform up to 350MHz
- 22 AWG Solid Copper conductors for less voltage drop, increased current-carrying capacity and reduced heat generation

GenSPEED® 6 MAX Category 6 Cable (22 AWG)



FEATURES & BENEFITS

- Guaranteed 7% insertion loss improvement over Category 6 industry standard, substantially increasing headroom of ACR and PSACR
- Plenum: performance guaranteed to 350 MHz
- OSP: gel-filled construction to prevent moisture migration in underground and wet applications
- OSP: wide temperature range for extreme weather environments
- TRU-MARK® print legend contains footage markings from 1000' to 0'
- Made in U.S.A.

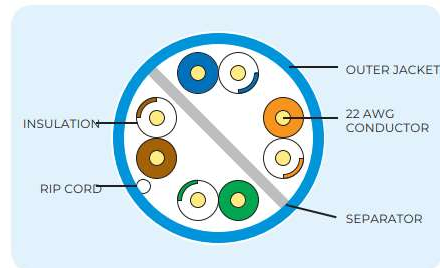
APPLICATIONS

- IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- ANSI/TIA 854: 1000 BASE-TX
- Digital Video
- Broadband and Baseband Analog Video
- CDDI, Token Ring, ATM
- Supports the growth of higher wattage devices (IT/IP, IoT, and IoE)
- Compatible with new higher-speed, higher-power USB 3.1 SuperSpeed
- OSP- Duct and Conduit Installations

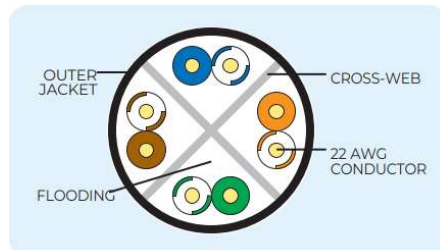
STANDARD COMPLIANCES

- ANSI/TIA 568.2-D
- UL 444
- NEC/CEC Type CMP-LP(0.7A) (NFPA 262)
- TIA TSB-184:2009
- RoHS Compliant Directive 2011/65/EU
- ICEA S-116-732
- ICEA S-102-700
- ISO/IEC 11801 Ed. 2.0(Class E)
- ANSI/TIA 862 (Building Automation)
- OSP- Telcordia (Bellcore) Specification GR-421-CORE Water Penetration Requirement

Cat 6 (22 Awg) CMP Cross Section



Cat 6 (22 AWG) OSP Cross Section



CONSTRUCTION

Conductors

- 22 AWG solid bare annealed copper

Insulation

- CMP: Fluoropolymer
- OSP: Polyolefin

Color Code

- Pair 1: Blue-White/Blue
- Pair 2: Orange-White/Orange
- Pair 3: Green-White/Green
- Pair 4: Brown- White/Brown

Separator

- CMP: Flat Divider
- OSP: Cross-web

Flooding Compound

- OSP: Waterproof gel

Rip Cord

- CMP: Applied longitudinally under jacket

Jacket

- CMP: Low-smoke, flame-retardant PVC
- OSP: UV and abrasion-resistant polyethylene

PHYSICAL DATA

	CMP	OSP
Nominal Cable Diameter (in)	0.245	0.295
Nominal Cable Weight(lbs/1000ft)	38.0	40
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force(lbs)	32	32
Temperature Rating (°C)		
Installation:	0 to +60	-30 to +60
Operation:	-20 to +105	-45 to +80

PART NUMBER

Standard packaging: 1000' Reel

	CMP	OSP
Jacket Color	Pull-Pac®	Spool
Blue	8131800	N/A
White	8131801	N/A
Yellow	8131802	N/A
Gray	8131803	N/A
Red	8131804	N/A
Orange	8131805	N/A
Green	8131806	N/A
Purple	8131809	N/A
Black	8131807	8146100

ELECTRICAL CHARACTERISTICS

	Max.	Nom.
DC Resistance Ohms/100m (328 ft.) @ 20°C	9.38	6.5
DC Resistance Unbalanced Individual Pair %	4.00	<1
Delay Skew Ns/100m	45	35
Nom. Velocity of Propagation % Speed of light	CMP: 72% OSP: 66%	
Characteristics Impedance Frequency (f): 1-350 MHz	Ohms 100 ± 15	

ELECTRICAL PERFORMANCE

Frequency	PSACR* (min)	ACR* (min)	Insertion Loss (max)	PSNEXT (min)	Next (min)	PSACRF (min)	ACRF (min)	Return Loss (min)	TCL (min)
1	70.4	72.4	1.9	72.3	74.3	64.8	67.8	20.0	40.0
4	59.8	61.8	3.5	63.3	65.3	52.8	55.7	23.0	40.0
10	51.8	53.8	5.5	57.3	59.3	44.8	47.8	25.0	40.0
16	47.2	49.2	7.0	54.2	56.2	40.7	43.7	25.0	38.0
20	44.9	46.9	7.9	52.8	54.8	38.8	41.7	25.0	37.0
31.25	40.0	42.0	9.9	49.9	51.9	34.9	37.9	23.6	35.1
62.5	31.1	33.1	14.3	45.4	47.4	28.9	31.8	21.5	32.0
100	23.9	25.9	18.4	42.3	44.3	24.8	27.8	20.1	30.0
150	16.7	18.7	23.0	39.7	41.7	21.3	24.3	18.9	28.2
200	10.8	12.8	27.0	37.8	39.8	18.8	21.8	18.0	27.0
250	5.7	7.7	30.6	36.3	38.3	16.8	19.8	17.3	26.0
350	-	-	37.0	34.1	36.1	13.9	16.9	16.3	-
400	-	-	40.0	33.3	35.3	12.8	15.8	15.9	-
500	-	-	45.5	31.8	33.8	10.8	13.8	15.2	-

Note: Values are expressed in dB per 100m (328 ft.) length @ 20°C. Results beyond 250 MHz are for OSP and reference only. Results beyond 350 MHz are for Plenum and reference only.

*PSACR & ACR not specified in ANSI/TIA 568.2-D

GenSPEED®

