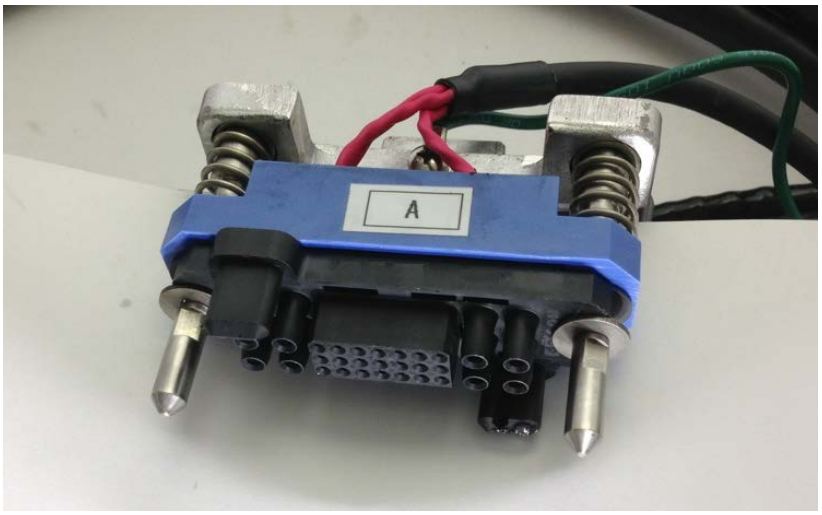
CAMERA LOWERING SYSTEMS

Design **CLS-JPR16HDD-20**

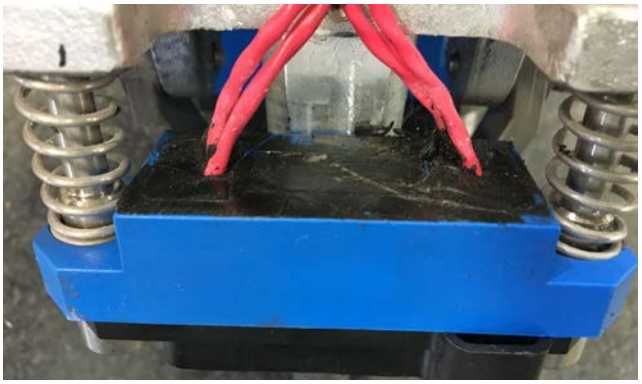
20FT EXTENSION CAT6 SIGNAL CABLE

20FT **CAT6** SIGNAL CABLE ASSEMBLY WITH SOCKET END TO MATCH THE PIN HALF OF THE DISCONNECT UNIT.

CABINET END TO COME WITH AN **RJ45**.



WIRES ARE CRIMPED TO THE CONTACTS IN THE CONNECTOR AND ARE POTTED IN WATERPROOF SILICONE.



CAMERA LOWERING SYSTEMS

SPECIFICATION SHEET
663-242-CAT6-UTP Composite Cable –D

OUTDOOR RATED CAT6 CABLE FOR POE

Features And Benefits

- Innovative cross-web design allowing for maximum pair separation, increasing key electrical performance parameters
- **Gel-filled construction to prevent moisture migration in underground and wet applications**
- **Outdoor, Direct Burial rated jacket with cable.**
- Wide temperature range for extreme weather environments
- Made in U.S.A.

Applications

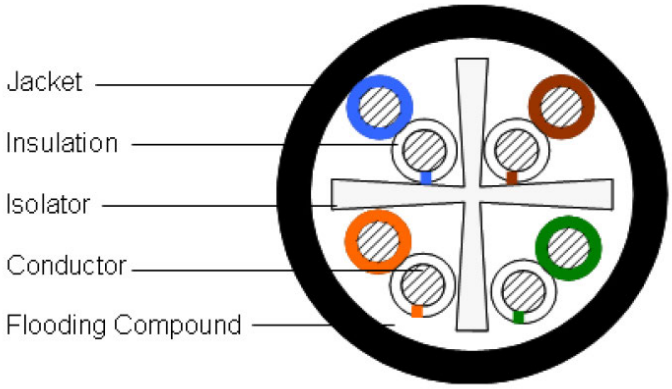
- Data transmission rates up to 2.4 Gb/s
- 1000 BASE-T (Gigabit Ethernet)
- 100/10 BASE-T (IEEE 802.3)
- 52/155 Mbps ATM
- Duct and outdoor conduit installations

Standard Compliances

- ANSI/TIA 568-C.2
- ISO 11801 (Category 6)
- ICEA S-102-700 (Category 6)
- Telcordia (Bellcore) Specification GR-421- CORE Water Penetration

Requirement

- RoHS Compliant Directive 2002/95/EC



CONSTRUCTION

Conductors
- **23 AWG solid bare annealed copper**

Insulation Material
- Polyolefin

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

Separator Material
- Cross-web, Polyolefin

Flooding Compound
- **Waterproof gel**

Jacket
- UV- and Abrasion-Resistant Polyethylene

ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100 m (328 ft) @ 20˚C	9.38 ohms
DC Resistance Unbalance (max) Individual Pair %	5.0
Delay Skew (max) ns/100 m	45
Nom. Velocity of Propagation % Speed of Light	65
Characteristic Impedance Frequency (f): 1-250 MHz	Ohms 100 ± 15

PHYSICAL DATA

Nominal Cable Diameter (in)	0.260
Jacket Thickness (in)	0.026
Nominal Cable Weight (lbs/1000	26.4
Minimum Bend Radius (in)	1.0
Maximum Pulling Force (lbs)	25
Temperature Rating (˚C)	
Installation:	-30 to +70
Operation:	-40 to +70

ELECTRICAL CHARACTERISTICS

Mutual Capacitance	6.0 nF/100 m @ 1 kHz
Operating Frequency, Maximum	250 MHz
Operating Voltage, Maximum	80 V
Transmission Standards	ANSI/TIA-568-C.2 / CENELEC EN 50288-6-1 / ISO/IEC 11801 Class E
Dielectric Strength, minimum	1500 Vac / 2500 Vdc

Note: All electrical transmission tests include swept frequency measurements

ELECTRICAL PERFORMANCE

Frequency MHz	**PSACR*** (min)	**ACR*** (min)	**Insertion Loss** (max)	**PSNEXT** (min)	**NEXT** (min)	**PSACRF** (min)	**ACRF** (min)	**Return Loss** (min)
1	70.3	72.3	2.0	72.3	74.3	64.8	67.8	20.0
4	59.3	61.5	3.8	63.3	65.3	52.8	55.7	23.0
10	51.3	53.3	6.0	57.3	59.3	44.8	47.8	25.0
16	46.7	48.7	7.6	54.2	56.2	40.7	43.7	25.0
20	44.3	46.3	8.5	52.8	54.8	38.8	41.7	25.0
31.25	39.2	41.2	10.7	49.9	51.9	34.9	37.9	23.6
62.5	29.9	32.0	15.4	45.4	47.4	28.9	31.8	21.5
100	22.5	24.5	19.8	42.3	44.3	24.8	27.8	20.1
200	8.8	10.8	29.0	37.8	39.8	18.8	21.8	18.0
250	3.5	5.5	32.8	36.3	38.3	16.8	19.8	17.3

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20˚C.
*PSACR & ACR not specified in ANSI/TIA 568-C.2