LANKABLE
CONNECTING POSSIBILITIES

COMMUNICATION DIVISION | CATALOGUE 2026

ENTERPRISE DATA & OPTICAL INFRASTRUCTURE

COMMUNICATION & NETWORKING CABLES

Engineered for gigabit throughput, ultra-low optical attenuation, and complete EMI/RFI immunity. Comprehensive technical specifications for Structured LAN Copper (Cat5e / Cat6 / Cat6A SFTP), Carrier-Grade Optical Fiber, FTTH Drop, Tactical Ruggedized Cables, and 75Ω High-Definition Coaxial feeds.

10G / 40G / 100G READY
High bandwidth & low latency

ANSI/TIA & ISO/IEC
TIA-568.2-D & ISO 11801

100% CHANNEL TESTED
Continuous lab certification

LSZH & UV RESISTANT
Zero halogen & extreme outdoor



LANKABLE COMMUNICATION CABLING SYSTEMS

Carrier-Grade Fiber Optic, Structured Copper LAN & High-Speed Data Links

www.lankable.com/industries/communication

COMMUNICATION CABLING DIVISION

At LANKABLE, our Communication & Networking division designs and manufactures the physical foundation of the global digital economy. From high-bandwidth Category 5e, Category 6, and Category 6A SFTP copper data channels to carrier-grade single-mode OS2 and multimode OM3/OM4 fiber optic backbones, we engineer connectivity systems that deliver zero packet loss, maximum throughput, and long-term mechanical reliability.



Our specialized production facilities in Jaipur utilize advanced foam-skin extrusion, automated high-precision twisters with uniform lay lengths, and 100% in-line capacitance monitoring. Every batch is rigorously validated to exceed ANSI/TIA-568.2-D, ISO/IEC 11801, and ITU-T standards for enterprise data centers, telecom towers, FTTH networks, and tactical industrial environments.

100% Fluke
CHANNEL & LINK CERTIFIED

550 MHz
HIGH-BANDWIDTH VALIDATION

100G Ready
OS2 & OM3/OM4 NETWORKS

FLUKE CERTIFIED PERMANENT LINK TESTING & OPTICAL TRACEABILITY

Every master drum of LAN copper and optical fiber undergoes rigorous NEXT, PS-NEXT, return loss, attenuation, and OTDR backscatter validation. We certify 100% permanent link performance so installers and network operators can guarantee uptime without hesitation.

LANKABLE

OUR MISSION

To engineer and deliver world-class cabling infrastructure and high-conductivity copper pathways that power critical digital and power networks across every continent. We are dedicated to ensuring zero failure rates, maximum electrical efficiency, and long-term sustainability through first-principles engineering and process perfection.



OUR VISION

To be the most trusted, innovative, and carbon-neutral cable manufacturing partner for global enterprises, utility grid developers, defence institutions, and telecom operators, setting the global benchmark for signal integrity, mechanical reliability, and customer-first execution.



> *"In an interconnected world where nanoseconds matter, the performance of your network depends entirely on the physical purity of your conductors and optical cores. We engineer cables you can stake your enterprise on."*

LANKABLE

CORE PRINCIPLES

ENGINEERING EXCELLENCE

We design every product with first-principles thinking, rigorous testing, and zero tolerance for shortcuts.

INNOVATION

From 400G switching to AI-driven RF optimization, we invest 20% of revenue annually in R&D.

RELIABILITY

Our products are deployed where failure is not an option. We design for 99.999% uptime from day one.

CUSTOMER OBSESSION

We measure success by our customers' network uptime, not our quarterly revenue.

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CUSTOM SIZING AND METALLURGY ARE AVAILABLE ON REQUEST

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STRUCTURED CABLING SYSTEMS

STRUCTURED COPPER LAN CABLES

Precision Category 5e, Category 6, and Category 6A UTP, FTP, and SFTP cables. 100% tested for alien crosstalk, low insertion loss, and high velocity of propagation up to 550 MHz for Gigabit and 10-Gigabit enterprise networking.

- STANDARDS COMPLIANT
- 100% TESTED

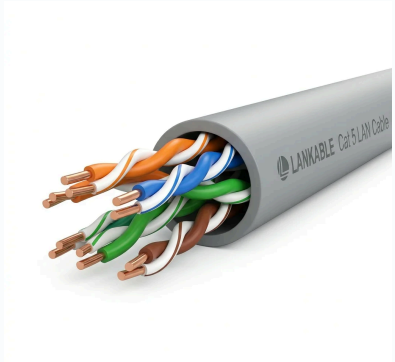
LAN COPPER CABLES

CAT 5 CABLE

Standard Cat 5 structured cable designed for basic network connections. Ideal for legacy networks, telephony, and low-speed IP applications.

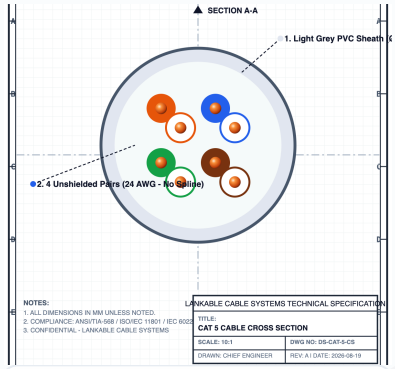
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



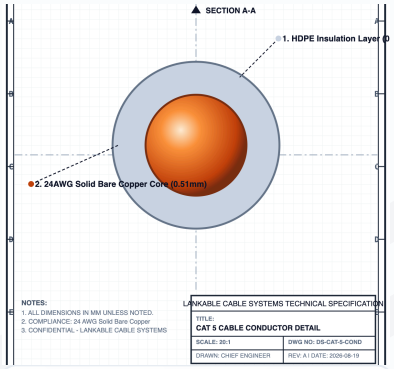
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ 24 AWG solid bare copper conductors
- ✓ High-density polyethylene (HDPE) insulation
- ✓ Flame retardant PVC jacket
- ✓ Supports speeds up to 100 Mbps
- ✓ MOQ: 1,000 Meters minimum

APPLICATIONS

Fast Ethernet Networks | IP Telephony (VoIP) | Analog CCTV CCTV Systems | Basic Control Circuits

DIMENSION CHARACTERISTICS

CONDUCTOR SIZE / STANDARD	NOMINAL OD	CONDUCTOR DC RESISTANCE	VELOCITY OF PROPAGATION
AWG 23 (Solid 0.57mm Conductor - Rec.)	6.2 mm	< 7.30 Ω/100m	69%
AWG 24 (Solid 0.51mm Conductor)	5.8 mm	< 9.38 Ω/100m	67%
AWG 25 (Solid 0.455mm Conductor)	5.5 mm	< 12.2 Ω/100m	66%

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES

Conductor	24 AWG (0.51 mm) Solid Bare C...
Insulation	High-Density Polyethylene (HD...
Shielding	U/UTP (Unshielded)
Jacket	Flame-Retardant PVC Grey
Bend Radius (Fixed)	4 x OD
Temp Range	-20°C to +70°C
Outer Diameter	5.4 mm

ELECTRICAL PARAMETERS & COMPLIANCE

Bandwidth	100 MHz
Impedance	100 ± 15 Ω
DC Resistance	< 9.38 Ω/100m @ 20°C
Velocity of Prop	67%
Standards	ANSI/TIA-568-C.2, ISO/IEC 11...
Flame Retardancy	IEC 60332-1-2 / UL 1581 VW-1
Environmental	RoHS Compliant

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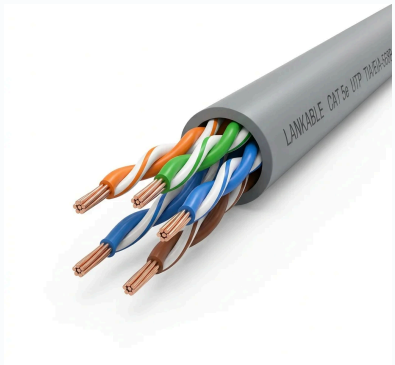
LAN COPPER CABLES

CAT 5E CABLE

Enhanced Category 5e LAN cable supporting Gigabit Ethernet rates. Engineered with tight twist layouts to reduce crosstalk and ensure signal integrity.

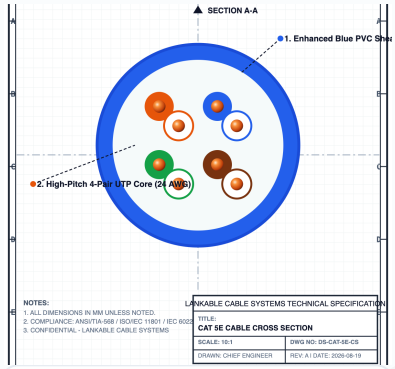
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



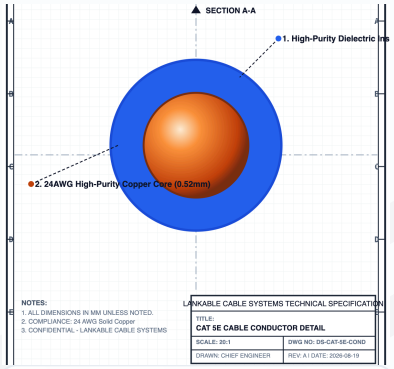
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ 24 AWG solid copper conductors
- ✓ Gigabit Ethernet support up to 100m
- ✓ Low smoke zero halogen (LSZH) jacket option
- ✓ Exceeds ANSI/TIA-568.2-D specifications
- ✓ MOQ: 1,000 Meters minimum

APPLICATIONS

Gigabit Ethernet (1000BASE-T) | PoE (Power over Ethernet) | Residential Structured Wiring | Enterprise Networks

DIMENSION CHARACTERISTICS

CONDUCTOR SIZE / STANDARD	NOMINAL OD	CONDUCTOR DC RESISTANCE	VELOCITY OF PROPAGATION
AWG 23 (Solid 0.57mm Conductor - Rec.)	6.2 mm	< 7.30 Ω/100m	69%
AWG 24 (Solid 0.51mm Conductor)	5.8 mm	< 9.38 Ω/100m	67%
AWG 25 (Solid 0.455mm Conductor)	5.5 mm	< 12.2 Ω/100m	66%

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES	
Conductor	24 AWG (0.51 mm) Solid Bare C...
Insulation	High-Density Polyethylene (HD...
Shielding	U/UTP (Unshielded)
Jacket	Flame-Retardant PVC Grey
Bend Radius (Fixed)	4 x OD
Temp Range	-20°C to +70°C
Outer Diameter	5.4 mm

ELECTRICAL PARAMETERS & COMPLIANCE	
Bandwidth	100 MHz
Impedance	100 ± 15 Ω
DC Resistance	< 9.38 Ω/100m @ 20°C
Velocity of Prop	67%
Standards	ANSI/TIA-568-C.2, ISO/IEC 11...
Flame Retardancy	IEC 60332-1-2 / UL 1581 VW-1
Environmental	RoHS Compliant

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LAN COPPER CABLES

CAT 6 UTP CABLE

High-performance Category 6 Unshielded Twisted Pair cable. Features a physical internal spline separator to eliminate Near-End Crosstalk (NEXT) and support gigabit transmission.

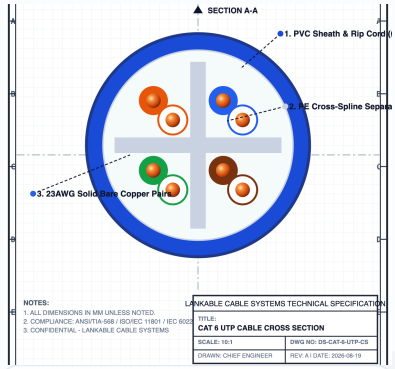
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



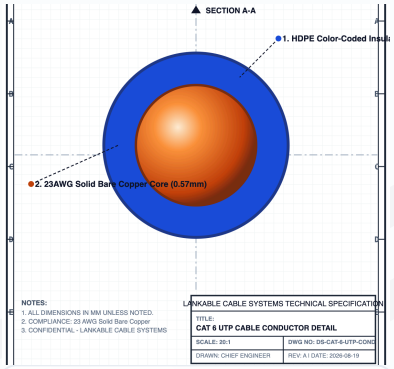
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ 23 AWG solid bare copper conductors
- ✓ Internal PE cross spline separator
- ✓ Low Smoke Zero Halogen (LSZH) jacket
- ✓ Supports 1GBASE-T and 10GBASE-T (up to 55m)
- ✓ MOQ: 1,000 Meters minimum

APPLICATIONS

High-speed LAN Infrastructure | PoE+ (Power over Ethernet Plus) | Smart Office Cabling | Commercial Data Drops

DIMENSION CHARACTERISTICS

CONDUCTOR SIZE / STANDARD	NOMINAL OD	CONDUCTOR DC RESISTANCE	VELOCITY OF PROPAGATION
AWG 23 (Solid 0.57mm Conductor - Rec.)	6.2 mm	< 7.30 Ω/100m	69%
AWG 24 (Solid 0.51mm Conductor)	5.8 mm	< 9.38 Ω/100m	67%
AWG 25 (Solid 0.455mm Conductor)	5.5 mm	< 12.2 Ω/100m	66%

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES	
Conductor	23 AWG (0.57 mm) Solid Bare C...
Insulation	High-Density Polyethylene (HD...
Shielding	U/UTP (Unshielded)
Jacket	Flame-Retardant PVC Grey
Bend Radius (Fixed)	4 x OD
Temp Range	-20°C to +70°C
Outer Diameter	6.2 mm

ELECTRICAL PARAMETERS & COMPLIANCE	
Bandwidth	250 MHz
Impedance	100 ± 15 Ω
DC Resistance	< 7.30 Ω/100m @ 20°C
Velocity of Prop	69%
Standards	ANSI/TIA-568-C.2, ISO/IEC 11...
Flame Retardancy	IEC 60332-1-2 / UL 1581 VW-1
Environmental	RoHS Compliant

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LAN COPPER CABLES

CATEGORY 6 ENHANCED (CAT6E) UTP CABLE

Extended performance Category 6e cable. Tested up to 500 MHz, providing higher signal-to-noise margins for demanding networks.

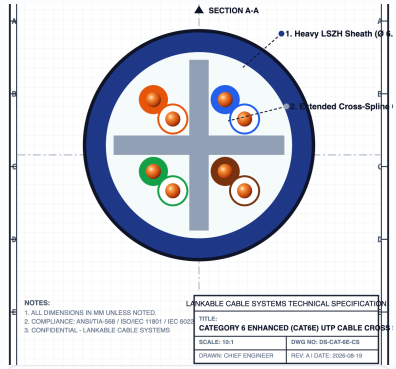
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



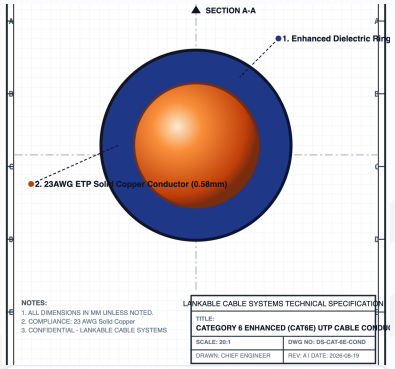
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ 23 AWG solid copper conductors
- ✓ Optimized twist ratios for low attenuation
- ✓ High performance cross spline separator
- ✓ LSZH flame retardant sheath
- ✓ MOQ: 1,000 Meters minimum

APPLICATIONS

Data Centers | PoE++ High Power Devices | Broadband Video Transmission | VoIP & Gigabit Networks

DIMENSION CHARACTERISTICS

CONDUCTOR SIZE / STANDARD	NOMINAL OD	CONDUCTOR DC RESISTANCE	VELOCITY OF PROPAGATION
AWG 23 (Solid 0.57mm Conductor - Rec.)	6.2 mm	< 7.30 Ω/100m	69%
AWG 24 (Solid 0.51mm Conductor)	5.8 mm	< 9.38 Ω/100m	67%
AWG 25 (Solid 0.455mm Conductor)	5.5 mm	< 12.2 Ω/100m	66%

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES	
Conductor	23 AWG (0.57 mm) Solid Bare C...
Insulation	High-Density Polyethylene (HD...
Shielding	U/UTP (Unshielded)
Jacket	Flame-Retardant PVC Grey
Bend Radius (Fixed)	4 x OD
Temp Range	-20°C to +70°C
Outer Diameter	6.2 mm

ELECTRICAL PARAMETERS & COMPLIANCE	
Bandwidth	250 MHz
Impedance	100 ± 15 Ω
DC Resistance	< 7.30 Ω/100m @ 20°C
Velocity of Prop	69%
Standards	ANSI/TIA-568-C.2, ISO/IEC 11...
Flame Retardancy	IEC 60332-1-2 / UL 1581 VW-1
Environmental	RoHS Compliant

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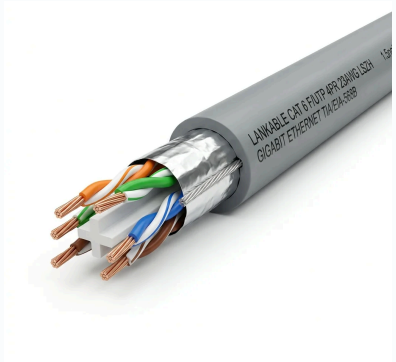
LAN COPPER CABLES

CAT 6 FTP CABLE

Foil Shielded twisted pair (F/UTP) Category 6 cable. Wrapped in a continuous aluminum-mylar foil shield with drain wire to eliminate external EMI.

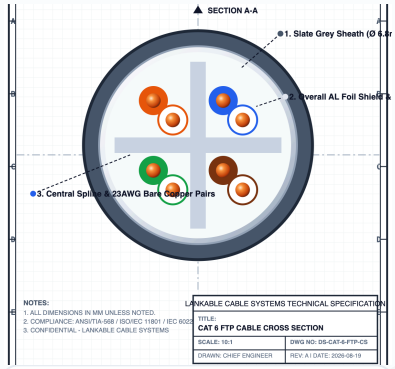
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



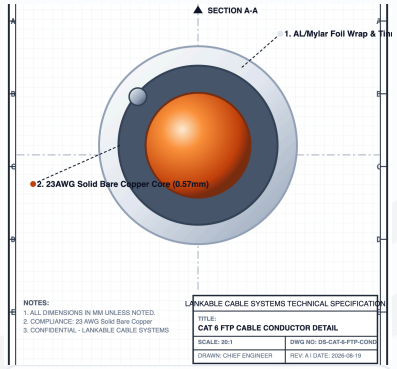
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ 23 AWG solid bare copper
- ✓ Overall aluminum foil shield (F/UTP) with tinned cop...
- ✓ Eliminates Alien Crosstalk (ANEXT) in tight bundles
- ✓ LSZH jacket for public safety installations
- ✓ MOQ: 1,000 Meters minimum

APPLICATIONS

- High-EMI Industrial Plants
- Co-located Network Bundles
- Government Secure Facilities
- Server Rooms

DIMENSION CHARACTERISTICS

CONDUCTOR SIZE / STANDARD	NOMINAL OD	CONDUCTOR DC RESISTANCE	VELOCITY OF PROPAGATION
AWG 23 (Solid 0.57mm Conductor - Rec.)	6.2 mm	< 7.30 Ω/100m	69%
AWG 24 (Solid 0.51mm Conductor)	5.8 mm	< 9.38 Ω/100m	67%
AWG 25 (Solid 0.455mm Conductor)	5.5 mm	< 12.2 Ω/100m	66%

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES

Conductor	23 AWG (0.57 mm) Solid Bare C...
Insulation	High-Density Polyethylene (HD...
Shielding	F/UTP (Foil Shielded)
Jacket	Flame-Retardant PVC Grey
Bend Radius (Fixed)	4 x OD
Temp Range	-20°C to +70°C
Outer Diameter	6.8 mm

ELECTRICAL PARAMETERS & COMPLIANCE

Bandwidth	250 MHz
Impedance	100 ± 15 Ω
DC Resistance	< 7.30 Ω/100m @ 20°C
Velocity of Prop	69%
Standards	ANSI/TIA-568-C.2, ISO/IEC 11...
Flame Retardancy	IEC 60332-1-2 / UL 1581 VW-1
Environmental	RoHS Compliant

LANKABLE

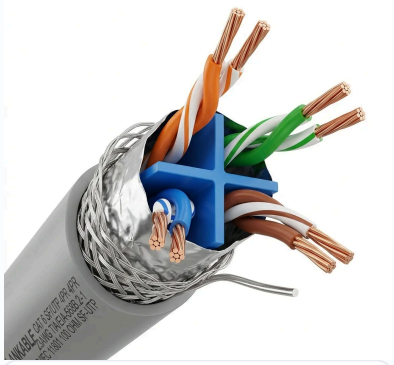
LAN COPPER CABLES

CAT 6 SFTP CABLE

Shielded Foil Twisted Pair (SF/UTP) Category 6 cable. Combines an overall braided copper screen and foil wrap for ultimate electromagnetic immunity.

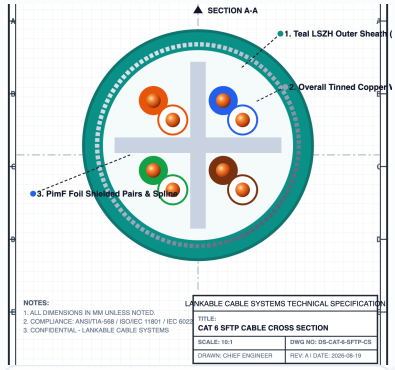
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



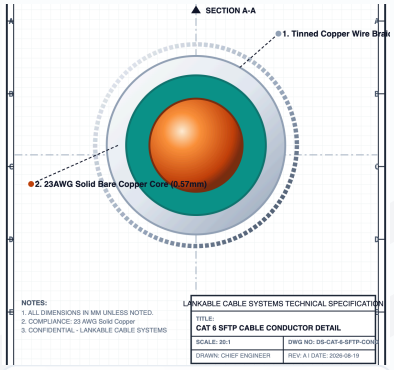
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ 23 AWG solid copper conductors
- ✓ Overall braid screen + inner foil shield
- ✓ Maximum protection against heavy industrial EMI
- ✓ Low smoke zero halogen jacket
- ✓ MOQ: 1,000 Meters minimum

APPLICATIONS

Industrial Control Rooms | Broadcast and AV Studios | Defence Communications | Power Transmission Substations

DIMENSION CHARACTERISTICS

CONDUCTOR SIZE / STANDARD	NOMINAL OD	CONDUCTOR DC RESISTANCE	VELOCITY OF PROPAGATION
AWG 23 (Solid 0.57mm Conductor - Rec.)	6.2 mm	< 7.30 Ω/100m	69%
AWG 24 (Solid 0.51mm Conductor)	5.8 mm	< 9.38 Ω/100m	67%
AWG 25 (Solid 0.455mm Conductor)	5.5 mm	< 12.2 Ω/100m	66%

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES	
Conductor	23 AWG (0.57 mm) Solid Bare C...
Insulation	High-Density Polyethylene (HD...
Shielding	SF/UTP (Braid + Foil)
Jacket	Flame-Retardant PVC Grey
Bend Radius (Fixed)	4 x OD
Temp Range	-20°C to +70°C
Outer Diameter	6.8 mm

ELECTRICAL PARAMETERS & COMPLIANCE	
Bandwidth	250 MHz
Impedance	100 ± 15 Ω
DC Resistance	< 7.30 Ω/100m @ 20°C
Velocity of Prop	69%
Standards	ANSI/TIA-568-C.2, ISO/IEC 11...
Flame Retardancy	IEC 60332-1-2 / UL 1581 VW-1
Environmental	RoHS Compliant

LANKABLE



HEAVY-DUTY INDUSTRIAL ETHERNET

ARMOURED & INDUSTRIAL LAN

Steel wire and corrugated tape armoured Category 6 cables. Engineered for direct burial, heavy plant automation, chemical resistance, and extreme mechanical protection with high-density shielding against severe EMI/RFI noise.

- STANDARDS COMPLIANT
- 100% TESTED

ARMOURED CABLES

ARMOURED UTP CABLE

Steel tape armoured unshielded twisted pair Cat 6 cable. Provides strong mechanical and rodent protection without shielding requirements.

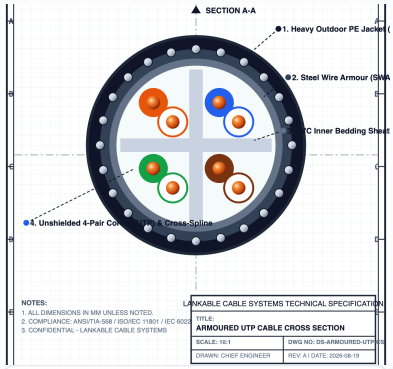
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



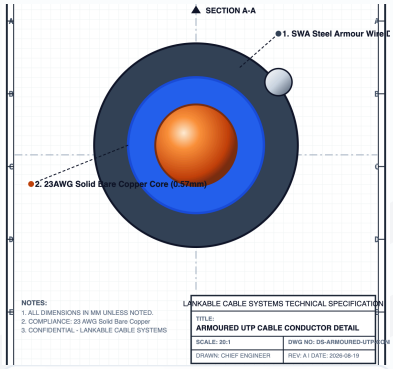
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ 23 AWG solid bare copper
- ✓ Corrugated steel tape armour layer
- ✓ Internal spline pair separator
- ✓ Double HDPE outer jacket
- ✓ MOQ: 2,000 Meters minimum

APPLICATIONS

Direct Burial Landscaping | Outdoor Duct Systems | Security Camera Runs | Campus Infrastructure

DIMENSION CHARACTERISTICS

CONDUCTOR SIZE / STANDARD	NOMINAL OD	CONDUCTOR DC RESISTANCE	VELOCITY OF PROPAGATION
AWG 23 (Solid 0.57mm Conductor - Rec.)	6.2 mm	< 7.30 Ω/100m	69%
AWG 24 (Solid 0.51mm Conductor)	5.8 mm	< 9.38 Ω/100m	67%
AWG 25 (Solid 0.455mm Conductor)	5.5 mm	< 12.2 Ω/100m	66%

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES	
Conductor	23 AWG (0.57 mm) Solid Bare C…
Insulation	High-Density Polyethylene (HD…
Shielding	U/UTP (Unshielded)
Jacket	Flame-Retardant PVC Grey
Bend Radius (Fixed)	4 x OD
Temp Range	-20°C to +70°C
Outer Diameter	6.2 mm

ELECTRICAL PARAMETERS & COMPLIANCE	
Bandwidth	250 MHz
Impedance	100 ± 15 Ω
DC Resistance	< 7.30 Ω/100m @ 20°C
Velocity of Prop	69%
Standards	ANSI/TIA-568-C.2, ISO/IEC 11…
Flame Retardancy	IEC 60332-1-2 / UL 1581 VW-1
Environmental	RoHS Compliant

LANKABLE

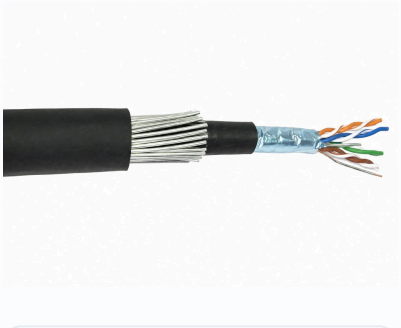
ARMOURED CABLES

ARMOURED FTP CABLE

Foil shielded armoured Cat 6 cable featuring a steel tape armour core. Protects the internal data conductors from heavy mechanical compression and chemical exposure.

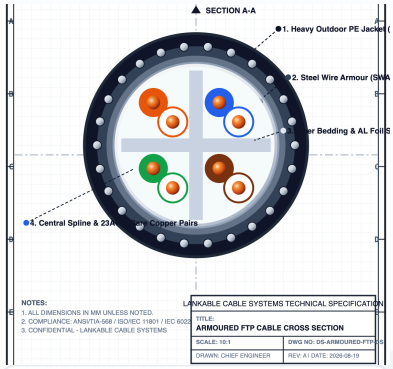
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



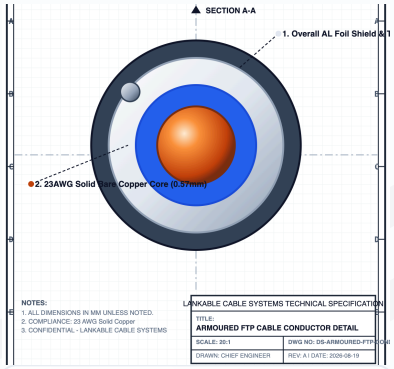
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ 23 AWG solid copper conductors
- ✓ Corrugated steel tape armouring
- ✓ Continuous aluminum foil shield wrap with drain wire
- ✓ Double HDPE outer jacket
- ✓ MOQ: 2,000 Meters minimum

APPLICATIONS

Underground Conduit Systems | Rodent-Prone Sites | Heavy Automation Plants | Oil & Gas Refineries

DIMENSION CHARACTERISTICS

CONDUCTOR SIZE / STANDARD	NOMINAL OD	CONDUCTOR DC RESISTANCE	VELOCITY OF PROPAGATION
AWG 23 (Solid 0.57mm Conductor - Rec.)	6.2 mm	< 7.30 Ω/100m	69%
AWG 24 (Solid 0.51mm Conductor)	5.8 mm	< 9.38 Ω/100m	67%
AWG 25 (Solid 0.455mm Conductor)	5.5 mm	< 12.2 Ω/100m	66%

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES	
Conductor	23 AWG (0.57 mm) Solid Bare C...
Insulation	High-Density Polyethylene (HD...
Shielding	F/UTP (Foil Shielded)
Jacket	Flame-Retardant PVC Grey
Bend Radius (Fixed)	4 x OD
Temp Range	-20°C to +70°C
Outer Diameter	6.8 mm

ELECTRICAL PARAMETERS & COMPLIANCE	
Bandwidth	250 MHz
Impedance	100 ± 15 Ω
DC Resistance	< 7.30 Ω/100m @ 20°C
Velocity of Prop	69%
Standards	ANSI/TIA-568-C.2, ISO/IEC 11...
Flame Retardancy	IEC 60332-1-2 / UL 1581 VW-1
Environmental	RoHS Compliant

LANKABLE

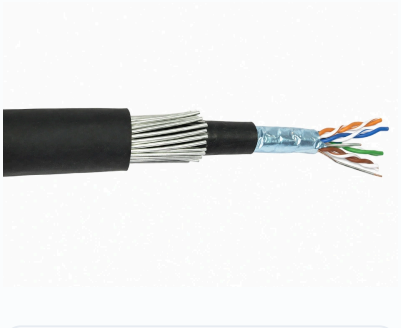
ARMOURED CABLES

ARMOURED SFTP CABLE

Double-shielded, galvanized steel wire braided (SWB) armoured Category 6 cable. Engineered to withstand extreme mechanical stress, crush forces, and rodent damage.

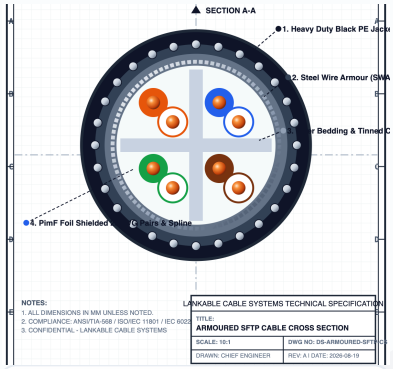
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



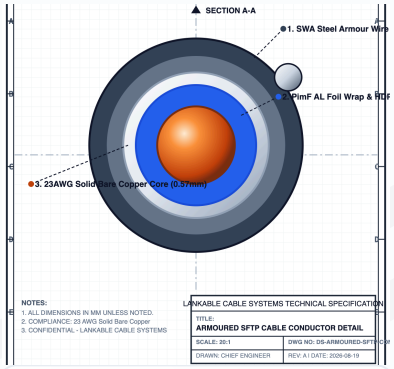
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ 23 AWG solid bare copper
- ✓ Galvanized steel wire armouring
- ✓ Overall tinned copper braid + aluminum foil shield
- ✓ Heavy duty double HDPE/LSZH jacket
- ✓ MOQ: 2,000 Meters minimum

APPLICATIONS

Direct Burial Installations | Petrochemical Industrial Floors | Railway & Subway Infrastructure | Mining & Outdoor Operations

DIMENSION CHARACTERISTICS

CONDUCTOR SIZE / STANDARD	NOMINAL OD	CONDUCTOR DC RESISTANCE	VELOCITY OF PROPAGATION
AWG 23 (Solid 0.57mm Conductor - Rec.)	6.2 mm	< 7.30 Ω/100m	69%
AWG 24 (Solid 0.51mm Conductor)	5.8 mm	< 9.38 Ω/100m	67%
AWG 25 (Solid 0.455mm Conductor)	5.5 mm	< 12.2 Ω/100m	66%

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES

Conductor	23 AWG (0.57 mm) Solid Bare C...
Insulation	High-Density Polyethylene (HD...
Shielding	SF/UTP Double Shielded
Jacket	Flame-Retardant PVC Grey
Bend Radius (Fixed)	4 x OD
Temp Range	-20°C to +70°C
Outer Diameter	6.8 mm

ELECTRICAL PARAMETERS & COMPLIANCE

Bandwidth	250 MHz
Impedance	100 ± 15 Ω
DC Resistance	< 7.30 Ω/100m @ 20°C
Velocity of Prop	69%
Standards	ANSI/TIA-568-C.2, ISO/IEC 11...
Flame Retardancy	IEC 60332-1-2 / UL 1581 VW-1
Environmental	RoHS Compliant

LANKABLE



EXTREME ENVIRONMENT NETWORKING

OUTDOOR WEATHERPROOF LAN

UV-resistant high-density polyethylene (HDPE) outdoor LAN cables with water-blocking tape, gel-filled moisture barriers, and double jackets. Built to withstand continuous solar UV radiation, sub-zero winters, and harsh monsoons.

• STANDARDS COMPLIANT • 100% TESTED

OUTDOOR CABLES

OUTDOOR UTP CABLE

Weather-resistant, UV-proof outdoor Cat 6 UTP cable. Built with a tough HDPE jacket and water-blocking gel to survive climate extremes without conduit protection.

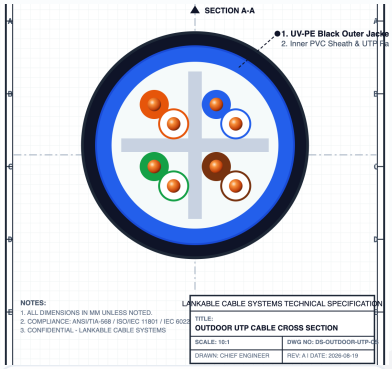
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



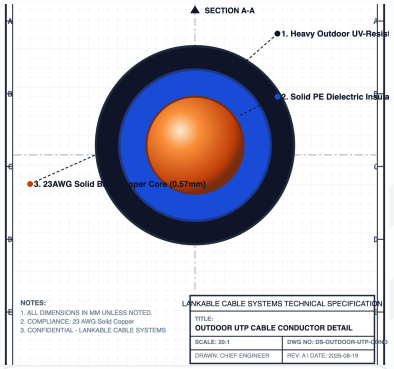
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ 23 AWG solid copper conductors
- ✓ Weather and UV-resistant HDPE jacket
- ✓ Water-blocking gel-filled core or swellable tape
- ✓ Internal spine separator
- ✓ MOQ: 2,000 Meters minimum

APPLICATIONS

Outdoor CCTV Camera Runs | Building-to-Building Aerials | Direct Duct Routing | Solar Farm Monitoring Systems

DIMENSION CHARACTERISTICS

CONDUCTOR SIZE / STANDARD	NOMINAL OD	CONDUCTOR DC RESISTANCE	VELOCITY OF PROPAGATION
AWG 23 (Solid 0.57mm Conductor - Rec.)	6.2 mm	< 7.30 Ω/100m	69%
AWG 24 (Solid 0.51mm Conductor)	5.8 mm	< 9.38 Ω/100m	67%
AWG 25 (Solid 0.455mm Conductor)	5.5 mm	< 12.2 Ω/100m	66%

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES	
Conductor	23 AWG (0.57 mm) Solid Bare C...
Insulation	High-Density Polyethylene (HD...
Shielding	U/UTP (Unshielded)
Jacket	UV-Resistant PE Black
Bend Radius (Fixed)	4 x OD
Temp Range	-20°C to +70°C
Outer Diameter	6.2 mm

ELECTRICAL PARAMETERS & COMPLIANCE	
Bandwidth	250 MHz
Impedance	100 ± 15 Ω
DC Resistance	< 7.30 Ω/100m @ 20°C
Velocity of Prop	69%
Standards	ANSI/TIA-568-C.2, ISO/IEC 11...
Flame Retardancy	IEC 60332-1-2 / UL 1581 VW-1
Environmental	RoHS Compliant

LANKABLE

OUTDOOR CABLES

OUTDOOR FTP CABLE

Foil shielded outdoor Category 6 cable. Keeps signals clean and isolates noise in high-power substation towers, cellular towers, and outdoor arrays.

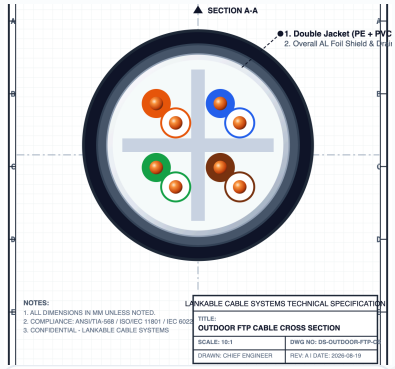
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



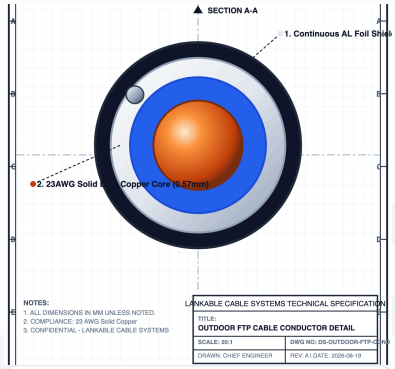
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ 23 AWG solid copper conductors
- ✓ Continuous aluminum foil shield wrap with drain wire
- ✓ UV-proof, black HDPE outer jacket
- ✓ Water-blocking dry core tape
- ✓ MOQ: 2,000 Meters minimum

APPLICATIONS

- Cellular Base Stations
- Wireless Access Points on Towers
- Substation Automation
- High-EMI Outdoor Environments

DIMENSION CHARACTERISTICS

CONDUCTOR SIZE / STANDARD	NOMINAL OD	CONDUCTOR DC RESISTANCE	VELOCITY OF PROPAGATION
AWG 23 (Solid 0.57mm Conductor - Rec.)	6.2 mm	< 7.30 Ω/100m	69%
AWG 24 (Solid 0.51mm Conductor)	5.8 mm	< 9.38 Ω/100m	67%
AWG 25 (Solid 0.455mm Conductor)	5.5 mm	< 12.2 Ω/100m	66%

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES	
Conductor	23 AWG (0.57 mm) Solid Bare C...
Insulation	High-Density Polyethylene (HD...
Shielding	F/UTP Foil Shielded
Jacket	UV-Resistant PE Black
Bend Radius (Fixed)	4 x OD
Temp Range	-20°C to +70°C
Outer Diameter	6.8 mm

ELECTRICAL PARAMETERS & COMPLIANCE	
Bandwidth	250 MHz
Impedance	100 ± 15 Ω
DC Resistance	< 7.30 Ω/100m @ 20°C
Velocity of Prop	69%
Standards	ANSI/TIA-568-C.2, ISO/IEC 11...
Flame Retardancy	IEC 60332-1-2 / UL 1581 VW-1
Environmental	RoHS Compliant

LANKABLE

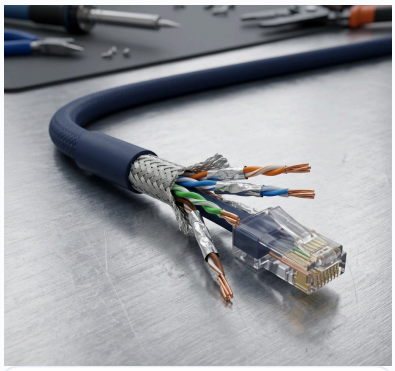
OUTDOOR CABLES

OUTDOOR SSFTP CABLE

Double-shielded, heavy-duty outdoor Cat 6A SFTP cable. Features individual foil-screened pairs and an overall tinned copper braid for high-throughput networks.

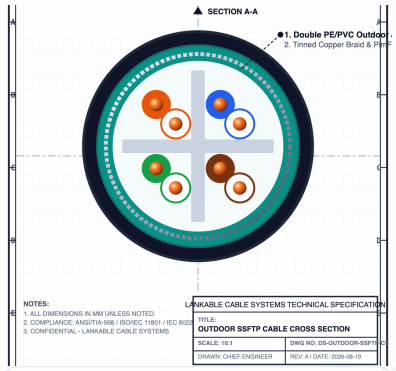
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



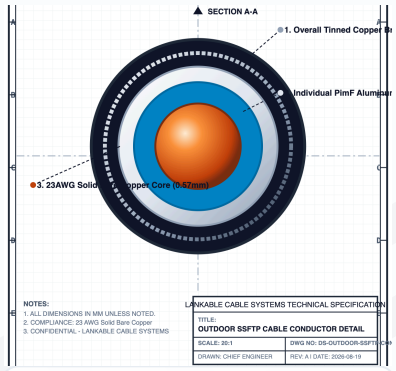
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ 23 AWG solid bare copper
- ✓ Individual foil shield on pairs + overall copper braid
- ✓ Double HDPE black outer jacket for weathering
- ✓ Water-blocking dry core wrapping
- ✓ MOQ: 2,000 Meters minimum

APPLICATIONS

High-speed Outdoor Links | Military Mobile Tactical Units | Wind Turbine Generator Networks | Railway Signal Lines

DIMENSION CHARACTERISTICS

CONDUCTOR SIZE / STANDARD	NOMINAL OD	CONDUCTOR DC RESISTANCE	VELOCITY OF PROPAGATION
AWG 23 (Solid 0.57mm Conductor - Rec.)	6.2 mm	< 7.30 Ω/100m	69%
AWG 24 (Solid 0.51mm Conductor)	5.8 mm	< 9.38 Ω/100m	67%
AWG 25 (Solid 0.455mm Conductor)	5.5 mm	< 12.2 Ω/100m	66%

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES	
Conductor	23 AWG (0.57 mm) Solid Bare C…
Insulation	High-Density Polyethylene (HD…
Shielding	S/FTP (Braid screen + foil pairs)
Jacket	UV-Resistant PE Black
Bend Radius (Fixed)	4 x OD
Temp Range	-20°C to +70°C
Outer Diameter	6.8 mm

ELECTRICAL PARAMETERS & COMPLIANCE	
Bandwidth	250 MHz
Impedance	100 ± 15 Ω
DC Resistance	< 7.30 Ω/100m @ 20°C
Velocity of Prop	69%
Standards	ANSI/TIA-568-C.2, ISO/IEC 11…
Flame Retardancy	IEC 60332-1-2 / UL 1581 VW-1
Environmental	RoHS Compliant

LANKABLE



OPTICAL BACKBONE INFRASTRUCTURE

CARRIER-GRADE OPTICAL FIBER

Corrugated steel tape armoured single-mode OS2, laser-optimized OM3/OM4 multimode, FTTH bow-type drop cables, tactical military ruggedized fibers, and high-density 12-to-144 core MPO/MTP trunk systems.

• STANDARDS COMPLIANT • 100% TESTED

ARMORED FIBER

SINGLE-MODE ARMORED FIBER OPTIC CABLE

High-core count G.652.D single-mode fiber optic cable encased in corrugated steel tape armor and double PE jacket for direct burial and harsh outdoor conditions.

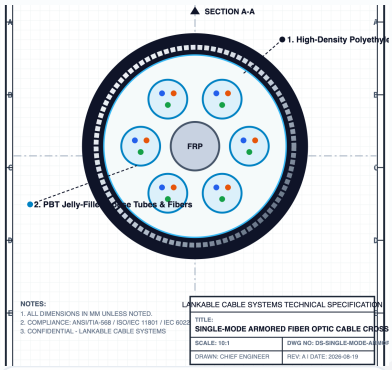
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



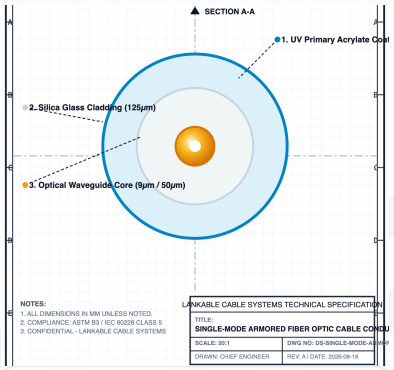
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ Corrugated steel tape (CST) armoring for rodent & c...
- ✓ Water-blocking gel-filled central tube layout
- ✓ Low attenuation OS2 single-mode optical core
- ✓ UV and moisture resistant dual high-density polyeth...
- ✓ MOQ: 1,000 Meters minimum

APPLICATIONS

- Direct Burial ISP Networks
- Inter-Building Campus Backbones
- Metropolitan Optical Rings
- Industrial Field Telemetry

DIMENSION CHARACTERISTICS

FIBER COUNT	NOMINAL OD	NOMINAL WEIGHT	MAX TENSILE LOAD
6 Core	8.2 mm	75 kg/km	1500 N
12 Core (Recommended)	8.5 mm	82 kg/km	1500 N
24 Core	9.2 mm	95 kg/km	1500 N

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES

Fiber Type	Single-Mode G.652.D / G.657.A1
Strength Member	FRP Strength Member + Steel ...
Armouring	Corrugated Steel Tape Armour
Outer Jacket	LSZH (Low Smoke Zero Haloge...
Bending Radius (Fixed)	10 x Cable OD
Bending Radius (Dynamic)	20 x Cable OD
Crush Resistance	1000 N/100mm
Tensile Strength (ST)	1500 N

ELECTRICAL PARAMETERS & COMPLIANCE

Attenuation @ 1310nm	≤ 0.36 dB/km (SM)
Attenuation @ 1550nm	≤ 0.22 dB/km (SM)
Attenuation @ 850nm	≤ 3.0 dB/km (MM)
Core/Cladding OD	9.2 / 125.0 ± 1.0 µm (SM) or 50. ...
ITU Standards	ITU-T G.652.D / G.657.A1 or ITU...
Test Standards	IEC 60793, IEC 60794-1-2
Flame Rating	IEC 60332-1 / UL 1666 (OFNR)
Environmental	RoHS & REACH Compliant

LANKABLE

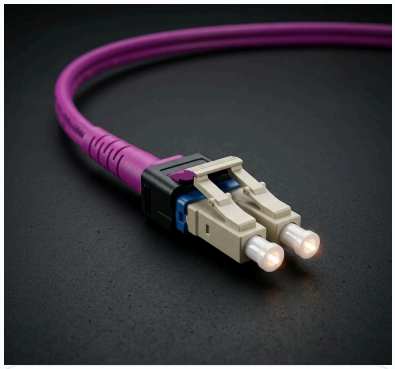
MULTI-MODE FIBER

MULTI-MODE OM3/OM4 FIBER OPTIC CABLE

Laser-optimized 50/125µm OM3/OM4 multi-mode fiber cable designed for 10G, 40G, and 100G high-density data center backbone backbones.

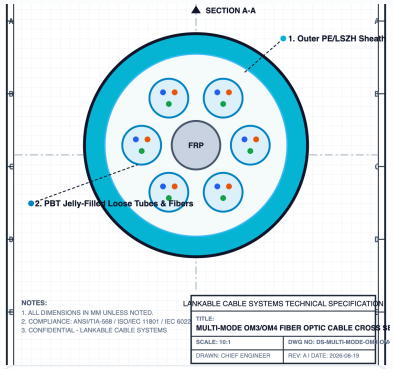
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



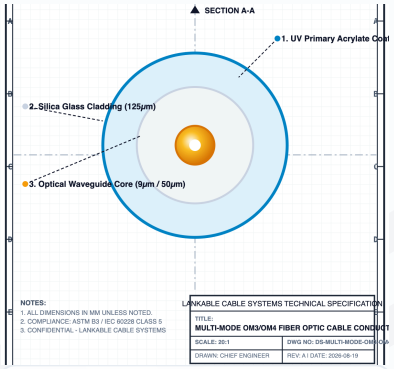
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ 50/125µm laser-optimized multi-mode fiber (OM3/...
- ✓ Low Smoke Zero Halogen (LSZH) flame retardant sh...
- ✓ Supports 40G and 100G Ethernet up to 150m
- ✓ High-density multi-tube compact construction
- ✓ MOQ: 1,000 Meters minimum

APPLICATIONS

Datacenter SAN & Server Cabinets | Enterprise High-Speed Backbones | 10G/40G Switch Aggregation | Hyperscale Cloud Architecture

DIMENSION CHARACTERISTICS

FIBER COUNT	NOMINAL OD	NOMINAL WEIGHT	MAX TENSILE LOAD
6 Core	5.8 mm	28 kg/km	600 N
12 Core (Recommended)	6.2 mm	32 kg/km	600 N
24 Core	7.0 mm	40 kg/km	600 N

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES

Fiber Type	Multi-Mode OM3/OM4 (50/12...
Strength Member	Aramid Yarn (Kevlar) / FRP
Armouring	None (All-Dielectric)
Outer Jacket	LSZH (Low Smoke Zero Haloge...
Bending Radius (Fixed)	10 x Cable OD
Bending Radius (Dynamic)	20 x Cable OD
Crush Resistance	300 N/100mm
Tensile Strength (ST)	600 N

ELECTRICAL PARAMETERS & COMPLIANCE

Attenuation @ 1310nm	≤ 0.36 dB/km (SM)
Attenuation @ 1550nm	≤ 0.22 dB/km (SM)
Attenuation @ 850nm	≤ 3.0 dB/km (MM)
Core/Cladding OD	9.2 / 125.0 ± 1.0 µm (SM) or 50....
ITU Standards	ITU-T G.652.D / G.657.A1 or ITU...
Test Standards	IEC 60793, IEC 60794-1-2
Flame Rating	IEC 60332-1 / UL 1666 (OFNR)
Environmental	RoHS & REACH Compliant

LANKABLE

FTTH FIBER

FTTH DROP FIBER OPTIC CABLE

Bow-type 1-4 core FTTH drop cable with FRP strength members and LSZH sheath, engineered for last-mile residential broadband connections.

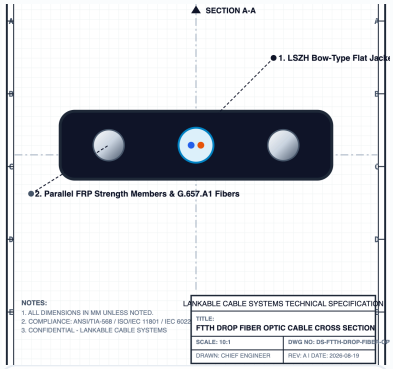
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



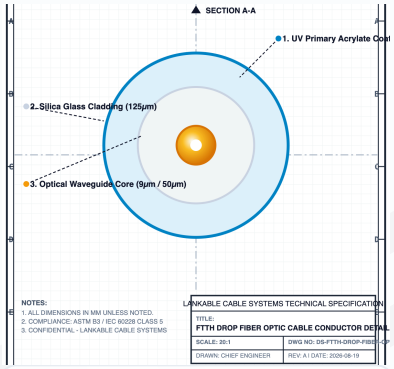
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ Bend-insensitive G.657.A1/A2 single-mode optical ...
- ✓ Dual parallel FRP (Fiber Reinforced Plastic) strength ...
- ✓ Low Smoke Zero Halogen (LSZH) flame retardant ja...
- ✓ Compact 2×3mm flat bow construction for indoor/...
- ✓ MOQ: 1,000 Meters minimum

APPLICATIONS

FTTH Last-Mile Broadband Drops | Indoor Riser & Wall Conduit Runs | Customer Premise Terminal Boxes | Residential Fiber Access

DIMENSION CHARACTERISTICS

FIBER COUNT	CABLE DIMENSIONS	NOMINAL WEIGHT	MAX TENSILE LOAD
1 Core (Standard)	2.0 mm x 3.0 mm	8.5 kg/km	80 N
2 Core (Recommended)	2.0 mm x 3.0 mm	9.0 kg/km	80 N
4 Core	2.0 mm x 3.0 mm	10.2 kg/km	80 N

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES

Fiber Type	Single-Mode G.652.D / G.657.A1
Strength Member	FRP (Fiber Reinforced Plastic) / ...
Armouring	None (All-Dielectric)
Outer Jacket	LSZH (Low Smoke Zero Haloge...
Bending Radius (Fixed)	10 x Cable OD
Bending Radius (Dynamic)	20 x Cable OD
Crush Resistance	500 N/100mm
Tensile Strength (ST)	80 N

ELECTRICAL PARAMETERS & COMPLIANCE

Attenuation @ 1310nm	≤ 0.36 dB/km (SM)
Attenuation @ 1550nm	≤ 0.22 dB/km (SM)
Attenuation @ 850nm	≤ 3.0 dB/km (MM)
Core/Cladding OD	9.2 / 125.0 ± 1.0 µm (SM) or 50. ...
ITU Standards	ITU-T G.652.D / G.657.A1 or ITU...
Test Standards	IEC 60793, IEC 60794-1-2
Flame Rating	IEC 60332-1 / UL 1666 (OFNR)
Environmental	RoHS & REACH Compliant

LANKABLE

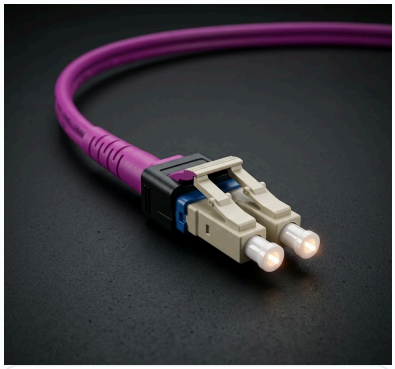
TACTICAL FIBER

TACTICAL RUGGEDIZED FIBER OPTIC CABLE

Military-grade, crush-proof polyurethane jacketed fiber optic cable built for temporary field deployment, broadcast vans, and defence links.

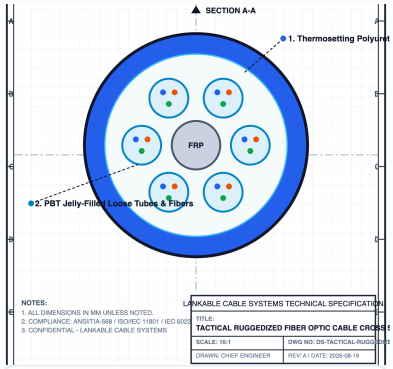
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



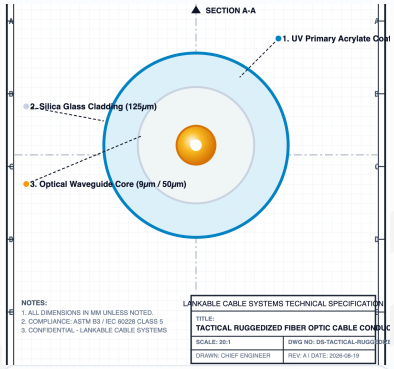
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ Abrasion and chemical resistant polyurethane outer…
- ✓ High-tensile aramid yarn strength member core
- ✓ Flexible tight-buffered fiber construction
- ✓ Repeated deploy and retrieve capability for field br…
- ✓ MOQ: 1,000 Meters minimum

APPLICATIONS

- Military Field Telecommunications
- Outdoor Broadcast OB Vans
- Mining & Industrial Mobile Links
- Rapid-Deployment Emergency Communications

DIMENSION CHARACTERISTICS

FIBER COUNT	NOMINAL OD	NOMINAL WEIGHT	MAX TENSILE LOAD
6 Core	5.8 mm	28 kg/km	600 N
12 Core (Recommended)	6.2 mm	32 kg/km	600 N
24 Core	7.0 mm	40 kg/km	600 N

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES

Fiber Type	Single-Mode G.652.D / G.657.A1
Strength Member	Aramid Yarn (Kevlar) / FRP
Armouring	None (All-Dielectric)
Outer Jacket	LSZH (Low Smoke Zero Haloge…
Bending Radius (Fixed)	10 x Cable OD
Bending Radius (Dynamic)	20 x Cable OD
Crush Resistance	300 N/100mm
Tensile Strength (ST)	600 N

ELECTRICAL PARAMETERS & COMPLIANCE

Attenuation @ 1310nm	≤ 0.36 dB/km (SM)
Attenuation @ 1550nm	≤ 0.22 dB/km (SM)
Attenuation @ 850nm	≤ 3.0 dB/km (MM)
Core/Cladding OD	9.2 / 125.0 ± 1.0 µm (SM) or 50.…
ITU Standards	ITU-T G.652.D / G.657.A1 or ITU…
Test Standards	IEC 60793, IEC 60794-1-2
Flame Rating	IEC 60332-1 / UL 1666 (OFNR)
Environmental	RoHS & REACH Compliant

LANKABLE

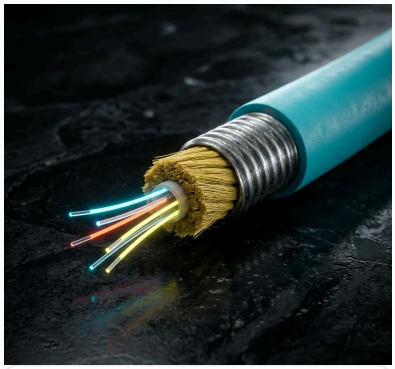
HIGH-DENSITY FIBER

MPO/MTP HIGH-DENSITY TRUNK CABLE

Pre-terminated 12/24/48-fiber MPO/MTP assembly for ultra-high-density SAN/LAN patching and 400G datacenter switch interconnects.

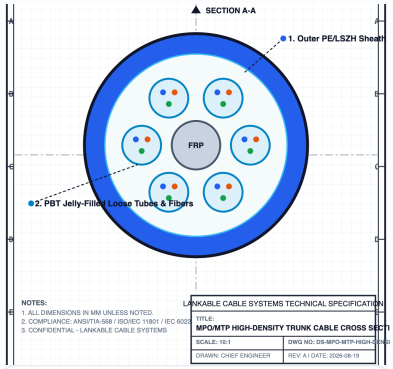
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



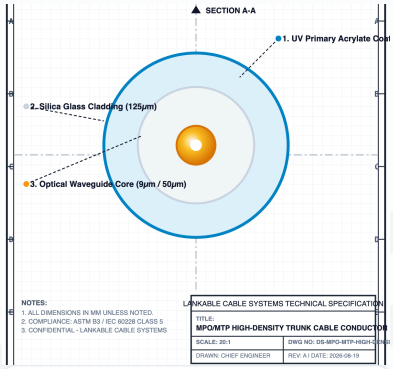
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ Pre-terminated US Conec MTP/MPO connectors
- ✓ Micro-cable round jacket construction for reduced ...
- ✓ Factory tested for ultra-low insertion loss (< 0.25 dB)
- ✓ OFNP Plenum / LSZH fire rated jacket
- ✓ MOQ: 1,000 Meters minimum

APPLICATIONS

Datacenter 40G/100G/400G Fabric | High-Density Fiber Patch Panels | Core Switch Interconnects | Cloud Infrastructure Racks

DIMENSION CHARACTERISTICS

FIBER COUNT	NOMINAL OD	NOMINAL WEIGHT	MAX TENSILE LOAD
6 Core	5.8 mm	28 kg/km	600 N
12 Core (Recommended)	6.2 mm	32 kg/km	600 N
24 Core	7.0 mm	40 kg/km	600 N

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES	
Fiber Type	Single-Mode G.652.D / G.657.A1
Strength Member	Aramid Yarn (Kevlar) / FRP
Armouring	None (All-Dielectric)
Outer Jacket	LSZH (Low Smoke Zero Haloge...
Bending Radius (Fixed)	10 x Cable OD
Bending Radius (Dynamic)	20 x Cable OD
Crush Resistance	300 N/100mm
Tensile Strength (ST)	600 N

ELECTRICAL PARAMETERS & COMPLIANCE	
Attenuation @ 1310nm	≤ 0.36 dB/km (SM)
Attenuation @ 1550nm	≤ 0.22 dB/km (SM)
Attenuation @ 850nm	≤ 3.0 dB/km (MM)
Core/Cladding OD	9.2 / 125.0 ± 1.0 µm (SM) or 50....
ITU Standards	ITU-T G.652.D / G.657.A1 or ITU...
Test Standards	IEC 60793, IEC 60794-1-2
Flame Rating	IEC 60332-1 / UL 1666 (OFNR)
Environmental	RoHS & REACH Compliant

LANKABLE

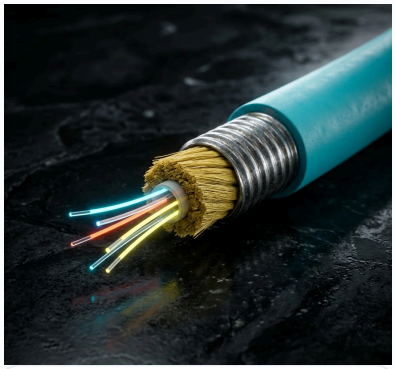
ARMORED FIBER

ARMORED OUTDOOR FIBER OPTIC CABLE

Double-jacketed steel armored loose tube fiber optic cable designed for campus backbones and direct burial ISP infrastructure.

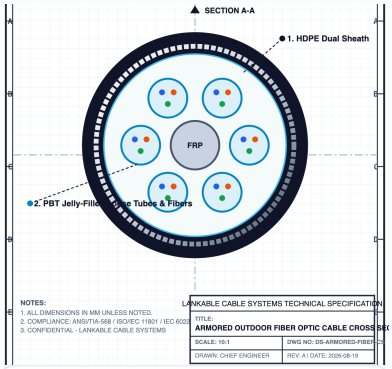
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



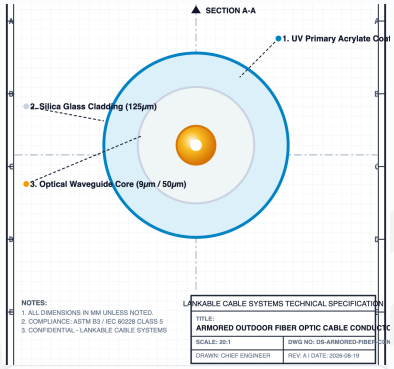
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ Double HDPE sheath with steel tape armor layers
- ✓ Gel-filled loose tubes for moisture resistance
- ✓ High tensile steel central strength member
- ✓ Operating range -40°C to +70°C
- ✓ MOQ: 1,000 Meters minimum

APPLICATIONS

- Direct Burial ISP Networks
- Campus Backbone Infrastructure
- Subway & Rail Tunnel Cabling
- Severe Weather Communications

DIMENSION CHARACTERISTICS

FIBER COUNT	NOMINAL OD	NOMINAL WEIGHT	MAX TENSILE LOAD
6 Core	8.2 mm	75 kg/km	1500 N
12 Core (Recommended)	8.5 mm	82 kg/km	1500 N
24 Core	9.2 mm	95 kg/km	1500 N

TECHNICAL DATA & APPROVALS

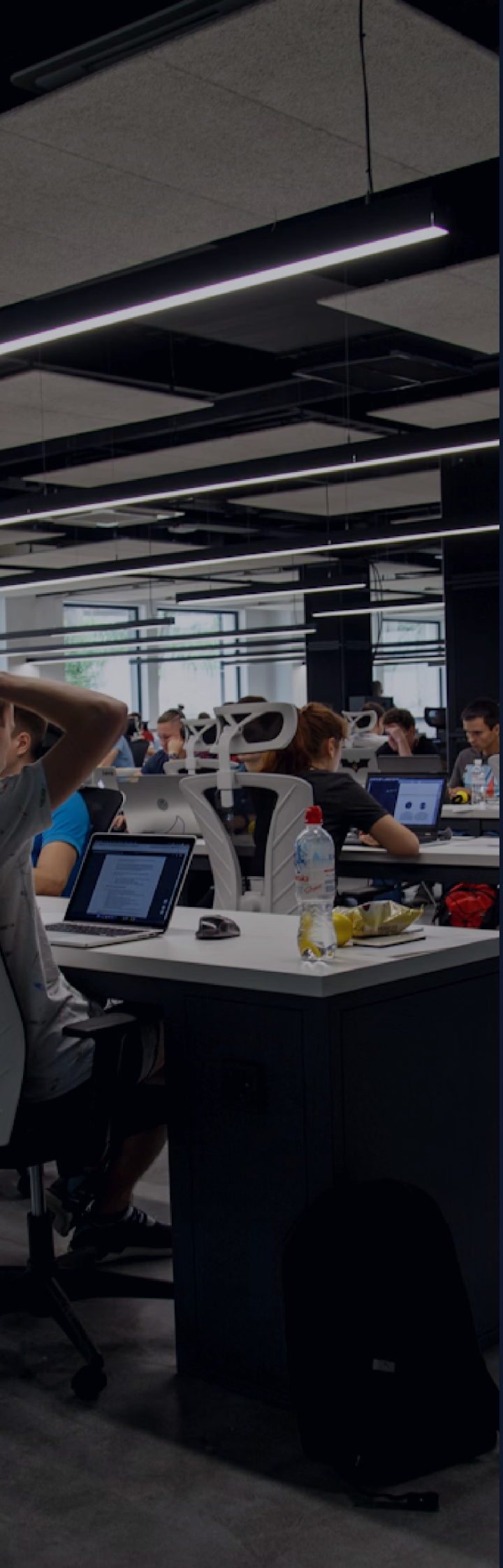
MATERIALS & PHYSICAL PROPERTIES

Fiber Type	Single-Mode G.652.D / G.657.A1
Strength Member	FRP Strength Member + Steel ...
Armouring	Corrugated Steel Tape Armour
Outer Jacket	LSZH (Low Smoke Zero Haloge...
Bending Radius (Fixed)	10 x Cable OD
Bending Radius (Dynamic)	20 x Cable OD
Crush Resistance	1000 N/100mm
Tensile Strength (ST)	1500 N

ELECTRICAL PARAMETERS & COMPLIANCE

Attenuation @ 1310nm	≤ 0.36 dB/km (SM)
Attenuation @ 1550nm	≤ 0.22 dB/km (SM)
Attenuation @ 850nm	≤ 3.0 dB/km (MM)
Core/Cladding OD	9.2 / 125.0 ± 1.0 µm (SM) or 50. ...
ITU Standards	ITU-T G.652.D / G.657.A1 or ITU...
Test Standards	IEC 60793, IEC 60794-1-2
Flame Rating	IEC 60332-1 / UL 1666 (OFNR)
Environmental	RoHS & REACH Compliant

LANKABLE



BROADBAND & TELEMETRY FEEDS

COAXIAL, TELEMETRY & MULTI-PAIR

Low-loss 75Ω RG-6 coaxial cables, 3+1 CCTV composite video & power feeds, multi-pair telephone switchboard cables, shielded telemetry pairs/triads, and high-frequency ribbon cables.

• STANDARDS COMPLIANT • 100% TESTED

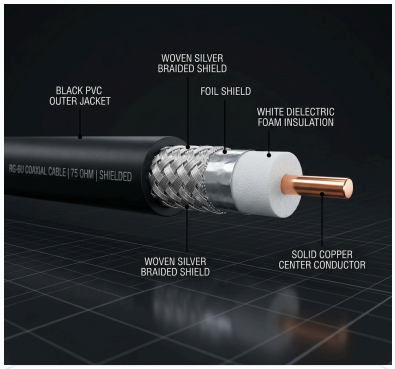
COAXIAL CABLE

RG-6 COAXIAL CABLE

RG-6 coaxial cable for television, satellite, CCTV and broadband distribution. Construction options are selected against the required impedance, shielding and installation environment.

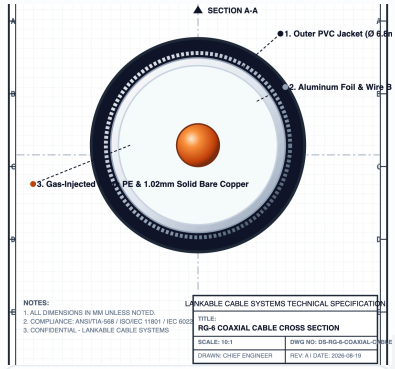
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



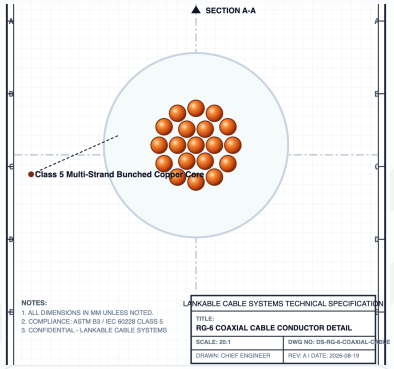
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ Coaxial construction: centre conductor, dielectric, ...
- ✓ Solid copper conductor option available for specifi...
- ✓ Shielding and jacket construction selected against ...
- ✓ PVC jacket standard option; custom construction s...

APPLICATIONS

Television distribution | Satellite installations | CCTV systems | Broadband distribution

DIMENSION CHARACTERISTICS

CENTER CONDUCTOR	DIELECTRIC / SHIELDING	NOMINAL OD	IMPEDANCE / VELOCITY
1.02 mm (18 AWG) Solid Bare Copper	Gas-Injected Foamed PE + Al-Foil + 60% Braid	6.85 mm	75 ± 3 Ω / 83%
Solid Bare Copper 18 AWG (High-Def)	Tri-Shield Al-Foil + 90% Braid Shielding	7.05 mm	75 ± 3 Ω / 85%

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES	
Center Conductor	18 AWG (1.02 mm) Solid Bare C...
Dielectric	Gas-Injected Foamed Polyethy...
Outer Conductor / Shield	Bonded Aluminum Foil + 60% A...
Jacket	Flame Retardant PVC (Indoor) /...
Nominal Outer Diameter	6.85 ± 0.15 mm
Min Bending Radius	65 mm
Operating Temperature	-30°C to +75°C

ELECTRICAL PARAMETERS & COMPLIANCE	
Characteristic Impedance	75 ± 3 Ω
Nominal Capacitance	53.2 pF/m (16.2 pF/ft)
Velocity of Propagation	83% to 85%
Attenuation @ 500 MHz	≤15.0 dB / 100m
Standards	MIL-C-17, SCTE IPS-SP-001, R...
Flame Rating	UL 1581 VW-1 / IEC 60332-1

LANKABLE

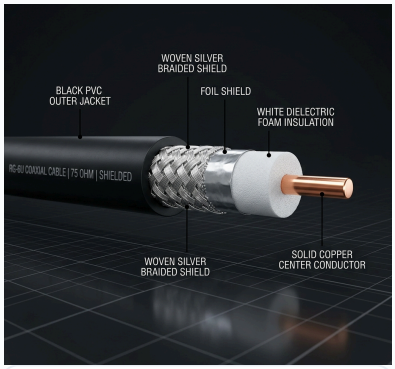
COAXIAL CABLE – CCA

RG-6 CCA COAXIAL CABLE

RG-6 coaxial cable with a Copper Clad Aluminium (CCA) centre conductor option for selected cost-sensitive applications. CCA is clearly identified so it is not confused with solid copper construction.

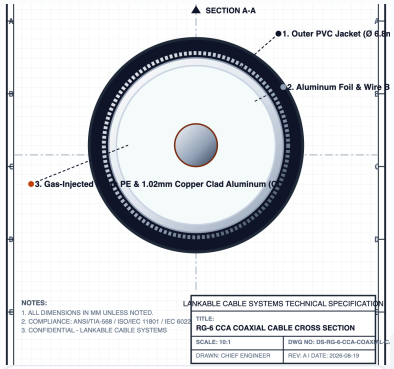
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



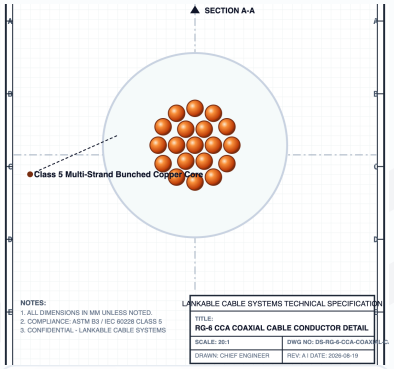
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ Copper Clad Aluminium (CCA) centre conductor
- ✓ Cost-effective option for selected applications
- ✓ Copper and CCA have different resistance and con…
- ✓ Shielding and jacket construction selected against …

APPLICATIONS

Television distribution | Satellite installations | Selected CCTV systems | Cost-sensitive distribution projects

DIMENSION CHARACTERISTICS

CENTER CONDUCTOR	DIELECTRIC / SHIELDING	NOMINAL OD	IMPEDANCE / VELOCITY
1.02 mm (18 AWG) Copper Clad Steel	Gas-Injected Foamed PE + Al-Foil + 60% Braid	6.85 mm	75 ± 3 Ω / 83%
Solid Bare Copper 18 AWG (High-Def)	Tri-Shield Al-Foil + 90% Braid Shielding	7.05 mm	75 ± 3 Ω / 85%

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES	
Center Conductor	18 AWG (1.02 mm) Copper Clad…
Dielectric	Gas-Injected Foamed Polyethy…
Outer Conductor / Shield	Bonded Aluminum Foil + 60% A…
Jacket	Flame Retardant PVC (Indoor) /…
Nominal Outer Diameter	6.85 ± 0.15 mm
Min Bending Radius	65 mm
Operating Temperature	-30°C to +75°C

ELECTRICAL PARAMETERS & COMPLIANCE	
Characteristic Impedance	75 ± 3 Ω
Nominal Capacitance	53.2 pF/m (16.2 pF/ft)
Velocity of Propagation	83% to 85%
Attenuation @ 500 MHz	≤15.0 dB / 100m
Standards	MIL-C-17, SCTE IPS-SP-001, R…
Flame Rating	UL 1581 VW-1 / IEC 60332-1

LANKABLE

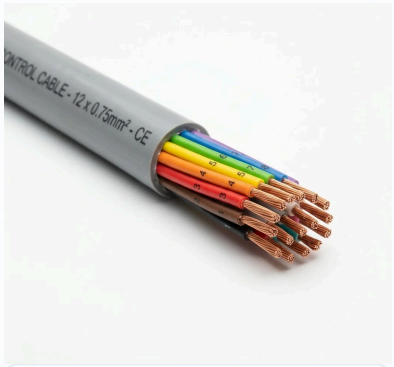
MULTICORE POWER CABLE

3 + 1 POWER & CONTROL CABLE

A 3 + 1 construction contains three primary power cores and one additional core. The additional core can be specified as an earth, neutral or control core according to the approved cable design.

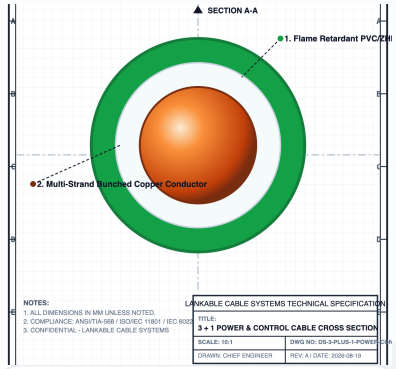
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



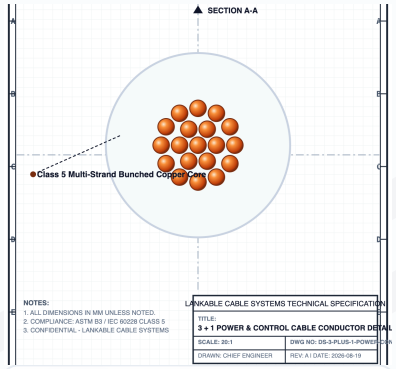
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ Three primary cores plus one additional specified c…
- ✓ Copper or aluminium conductor options subject to …
- ✓ PVC insulation and sheath standard option
- ✓ Core size, identification and construction confirme…

APPLICATIONS

Power distribution | Equipment and machine connections | Control and auxiliary circuits | Project-specific installations

DIMENSION CHARACTERISTICS

CABLE SECTION	CONDUCTOR CONSTRUCTION	INSULATION / SHIELDING	NOMINAL JACKET OD
Video Signal Core	Solid Bare Copper 0.81 mm	Foamed PE + Al-Foil + Copper Braid	4.5 mm (Internal Coax)
Power Cores (3 Cores)	Class 5 Flexible Copper (14/0.15 mm)	Color-Coded PVC (Red, Black, Yellow)	1.5 mm each
Composite Overall	Unified Round Construction	Weather-Resistant Flame-Retardant PVC	8.2 mm Nominal

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES

Signal Conductor	Solid Bare Copper 0.81 mm (Co…
Power Conductors	3 x 0.5 sq mm Class 5 Flexible C…
Dielectric / Insulation	Foamed PE (Coax) + Color-Co…
Outer Jacket	Weather-Resistant Flame-Ret…
Nominal Outer Diameter	8.2 ± 0.2 mm
Bending Radius	8 x Cable OD
Operating Temperature	-20°C to +70°C

ELECTRICAL PARAMETERS & COMPLIANCE

Video Core Impedance	75 ± 3 Ω
Power Core Voltage Rating	300 / 500 V
Insulation Resistance	> 100 MΩ·km
Standards	IS 694, IEC 60227, RoHS Compli…
Certifications	CE, ISO 9001

LANKABLE

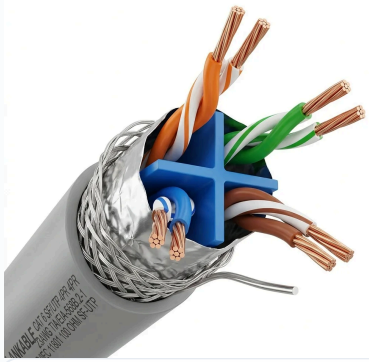
COMMUNICATION CABLE

COMMUNICATION CABLES (RANGE)

Specialized cables designed to transmit data, voice, or video signals between devices, short or long distances.

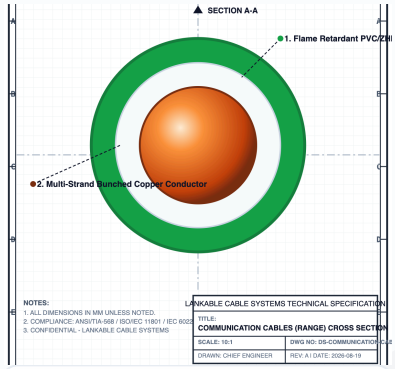
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



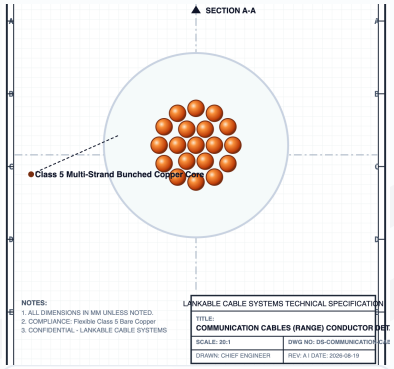
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ High-speed data transmission support
- ✓ Twisted pair configuration to minimize crosstalk
- ✓ Low attenuation and signal loss over long distances
- ✓ Flame-retardant outer sheath for fire safety

APPLICATIONS

Local Area Networks (LAN) | Database telecommunications | Office IP telephony | Smart home device networking

DIMENSION CHARACTERISTICS

PAIR / TRIAD LAYOUT	CONDUCTOR SIZE	SHIELDING TYPE	MAX DC RESISTANCE @ 20°C
1 Pair to 24 Pairs	0.5 sq mm (Class 5 / Class 2)	Individual & Overall Al-Mylar + Drain	39.0 Ω/km
1 Pair to 12 Pairs	0.75 sq mm (Flexible Cu)	Individual & Overall Al-Mylar + Drain	26.0 Ω/km
1 Pair to 8 Triads	1.5 sq mm (Class 2 Stranded)	Overall Shielded Aluminum-Mylar Tape	12.1 Ω/km

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES	
Conductor Metallurgy	Class 2 / Class 5 Annealed Bare ...
Insulation	PVC / XLPE Color-Coded Pairs ...
Shielding	Individual & Overall Aluminum-...
Outer Sheath	Flame Retardant Low Smoke P...
Bending Radius	8 x OD (Unarmoured) / 12 x OD (...
Armouring Option	Galvanized Steel Round Wire / ...

ELECTRICAL PARAMETERS & COMPLIANCE	
Voltage Rating	300 / 500 V (Control & Telemet...
Test Voltage	2000 V AC for 1 min
Mutual Capacitance	≤ 100 nF/km @ 1 kHz
Standards	BS 5308 Part 1/2, EN 50288-7, I...
Certifications	CE, RoHS Compliant

LANKABLE

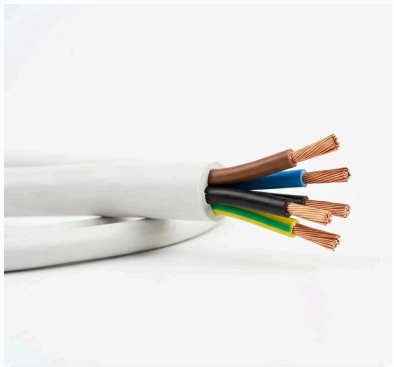
CONTROL & INSTRUMENTATION CABLES

PAIR/TRIAD CABLES

Multi-core copper control cables designed for signal transmission in automated CNC stations, switchgear instrumentation panels, and control panels. Equipped with high-density shielding to minimize crosstalk.

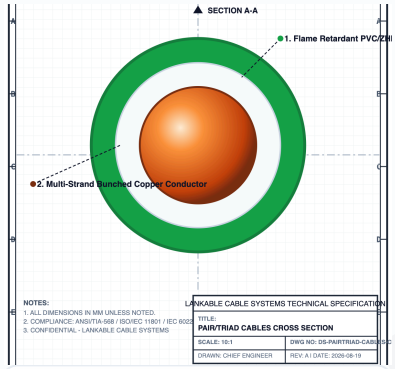
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



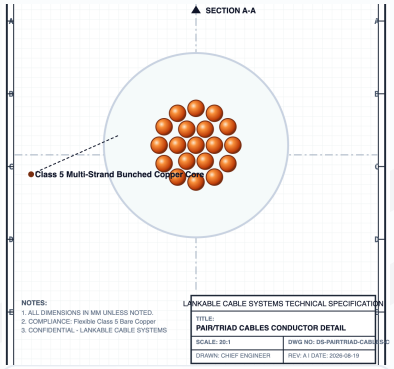
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ Class 5/6 flexible conductor stranding for dynamic ...
- ✓ Excellent resistance to oils, chemicals, and industria...
- ✓ High shielding coverage for superior noise suppress...
- ✓ Tested for continuity and high-voltage insulation st...

APPLICATIONS

- CNC machine automation panels
- Appliance motor wiring
- Switchboard control instrumentation
- Industrial sensor networks

DIMENSION CHARACTERISTICS

PAIR / TRIAD LAYOUT	CONDUCTOR SIZE	SHIELDING TYPE	MAX DC RESISTANCE @ 20°C
1 Pair to 24 Pairs	0.5 sq mm (Class 5 / Class 2)	Individual & Overall Al-Mylar + Drain	39.0 Ω/km
1 Pair to 12 Pairs	0.75 sq mm (Flexible Cu)	Individual & Overall Al-Mylar + Drain	26.0 Ω/km
1 Pair to 8 Triads	1.5 sq mm (Class 2 Stranded)	Overall Shielded Aluminum-Mylar Tape	12.1 Ω/km

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES

Conductor Metallurgy	Class 2 / Class 5 Annealed Bare ...
Insulation	PVC / XLPE Color-Coded Pairs ...
Shielding	Individual & Overall Aluminum-...
Outer Sheath	Flame Retardant Low Smoke P...
Bending Radius	8 x OD (Unarmoured) / 12 x OD (...
Armouring Option	Galvanized Steel Round Wire / ...

ELECTRICAL PARAMETERS & COMPLIANCE

Voltage Rating	300 / 500 V (Control & Telemet...
Test Voltage	2000 V AC for 1 min
Mutual Capacitance	≤ 100 nF/km @ 1 kHz
Standards	BS 5308 Part 1/2, EN 50288-7, I...
Certifications	CE, RoHS Compliant

LANKABLE

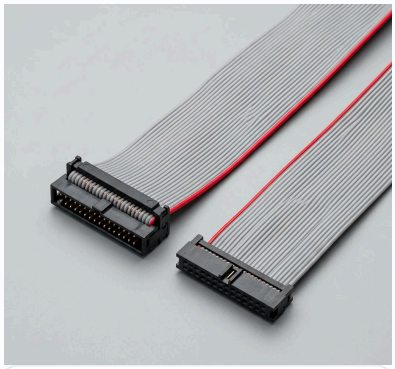
FRC (RIBBON CABLES)

FRC (RIBBON CABLES)

Flat ribbon conductor cables.

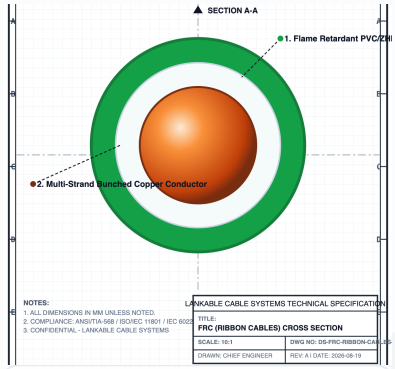
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



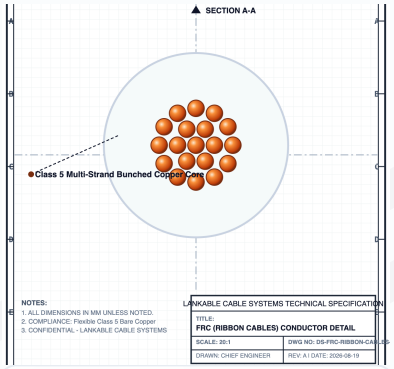
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ Class 5/6 flexible conductor stranding for dynamic ...
- ✓ Excellent resistance to oils, chemicals, and industria...
- ✓ High shielding coverage for superior noise suppress...
- ✓ Tested for continuity and high-voltage insulation st...

APPLICATIONS

CNC machine automation panels | Appliance motor wiring | Switchboard control instrumentation | Industrial sensor networks

DIMENSION CHARACTERISTICS

CONDUCTOR COUNT	PITCH / SPACING	CONDUCTOR STRANDING	VOLTAGE RATING
10 to 64 Conductors	1.27 mm (0.050 inch)	28 AWG (7/36 Tinned Copper)	300 V RMS
16 to 40 Conductors	1.00 mm Ultra-Fine	28 AWG (7/36 Tinned Copper)	300 V RMS

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES	
Conductor	28 AWG (7/36) Stranded Tinne...
Insulation	Extruded Grey PVC with Red Po...
Pitch	1.27 mm (0.050 inch) Standard ...
Operating Temp	-20°C to +105°C
Flame Rating	UL VW-1 / CSA FT1

ELECTRICAL PARAMETERS & COMPLIANCE	
Voltage Rating	300 V RMS
Current Rating	1.0 Amp per conductor
Impedance	105 Ω Unbalanced
Standards	UL 2651, RoHS & REACH Compli...

LANKABLE

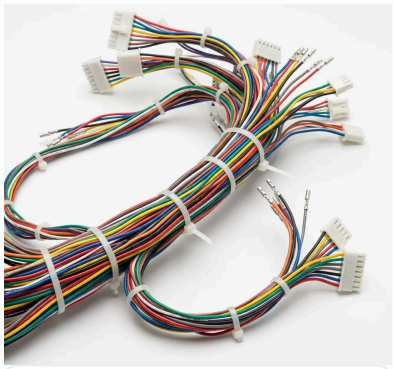
BUILDING WIRES (INDIA)

SPEAKER CABLE, 2-CORE PVC INSULATED

Recommended for speakers, public address systems; clear, distortion-free voice with low dB loss.

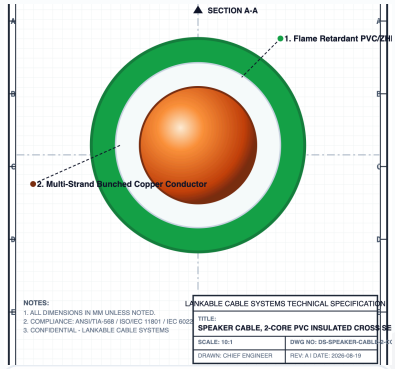
PRODUCT BUILD UP (SCHEMATICS)

VISUAL RENDER



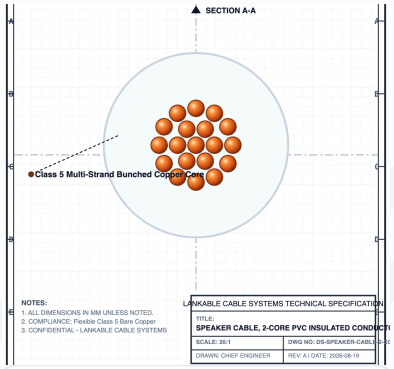
Sheathing

CAD CROSS-SECTION



Internal Core

CONDUCTOR DETAIL



Conductor Gauge

PRODUCT FEATURES

- ✓ High dielectric insulation strength
- ✓ Corrosion-resistant copper/aluminum conductors
- ✓ Self-extinguishing, flame-retardant outer sheathing
- ✓ Designed to carry high current loads with minimum ...

APPLICATIONS

- Residential building electrification
- Power sub-station grids
- Heavy machine electricity feeds
- Outdoor streetlighting grids

DIMENSION CHARACTERISTICS

CONDUCTOR CROSS-SECTION	CONDUCTOR LAYOUT	JACKET STYLE	MAX DC RESISTANCE @ 20°C
2 x 0.75 sq mm (24/0.2 mm)	Oxygen-Free Copper (OFC)	Transparent / Polarized Stripe PVC	26.0 Ω/km
2 x 1.50 sq mm (48/0.2 mm)	Oxygen-Free Copper (OFC)	Transparent / Polarized Stripe PVC	13.3 Ω/km
2 x 2.50 sq mm (80/0.2 mm)	Oxygen-Free Copper (OFC)	Heavy Duty Flexible Clear PVC	7.98 Ω/km

TECHNICAL DATA & APPROVALS

MATERIALS & PHYSICAL PROPERTIES

Conductor Metallurgy	High-Purity Oxygen-Free Cop...
Insulation	Ultra-Flexible Transparent PVC ...
Temperature Rating	-15°C to +70°C
Flexibility	High Flex Acoustic Grade

ELECTRICAL PARAMETERS & COMPLIANCE

Voltage Rating	300 V Peak
Inductance	≤ 0.55 µH/m
Standards	RoHS Compliant, CE Certified

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