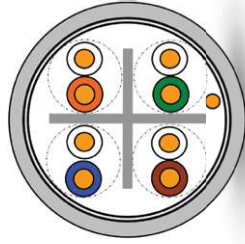


F/UTP 6
4x2x23 AWG - LSZH sheath



1. **Conductor:** 100% copper solid wire
2. **Insulation:** PE compound
3. **Twisting:** 2 cores twisted in a pair
4. **Earth wire:** tinned copper wire
5. **Screen:** overlapped laminated aluminium foil
6. **Separating cross element:** MDPE compound
7. **Outer jacket:** grey LSZH

Description:	Application:
1. Introduction: This document provides a comprehensive overview of the project's objectives, scope, and the methodology employed for data collection and analysis. 2. Objectives: The primary goal of this study is to investigate the impact of [specific factor] on [specific outcome]. Secondary objectives include identifying key variables and establishing a baseline for future research. 3. Scope: The study focuses on [specific population/sample] and covers the period from [start date] to [end date]. It addresses the following research questions: - How does [specific factor] influence [specific outcome]? - What are the key variables associated with [specific outcome]? 4. Methodology: The research employs a [specific methodology, e.g., quantitative/qualitative/mixed methods] approach. Data was collected through [specific methods, e.g., surveys, interviews, experiments]. The analysis was conducted using [specific statistical/analytical tools]. 5. Results: The findings indicate that [specific factor] has a [specific impact, e.g., positive/negative] effect on [specific outcome]. Key variables identified include [list variables]. 6. Conclusion: The study concludes that [specific factor] plays a significant role in determining [specific outcome]. The results suggest that [specific recommendations/implications] for [specific field/industry]. 7. References: A list of relevant literature and sources consulted during the research process. 8. Appendices: Additional data, tables, and figures supporting the main findings.	1. Project Overview: This application details the project's goals, timeline, and resource allocation. It serves as a roadmap for the team and a communication tool for stakeholders. 2. Objectives: The project aims to [specific objective, e.g., develop a new product, improve efficiency]. Key milestones include [list milestones]. 3. Scope: The project covers [specific scope, e.g., development, testing, deployment]. It excludes [specific exclusions, e.g., maintenance, training]. 4. Methodology: The project follows a [specific methodology, e.g., Agile, Waterfall]. Key phases include [list phases]. 5. Results: The project has achieved [specific results, e.g., completed development, launched product]. Key metrics include [list metrics]. 6. Conclusion: The project is successful in achieving its objectives. The results demonstrate [specific benefits, e.g., improved efficiency, increased revenue]. 7. References: A list of relevant documents and sources consulted during the project. 8. Appendices: Additional documents, tables, and figures supporting the project details.

Description:
Data transmission cable F/UTP cat. 6, tested up to 350MHz, with LSZH sheath.

Fire behavior:

Application: Installation cables for structured horizontal cabling. These cables are ideal for LAN data transmission in all Ethernet (IEEE802.3) applications up to 1000Base-T. The foil screen prevents electromagnetic

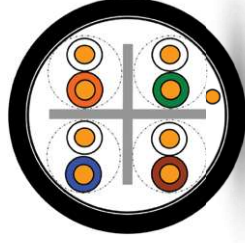
Basic electrical characteristics (20°C)	
DC Conductor Resistance	≤ 80 mΩ/m
Insulation Resistance	≥ 500 MΩ·km / 500 VDC
Mutual Capacitance	≤ 3.1 pF / cm / 10 kHz
Capacitance pair to ground	≤ 500 pF / cm / 10 kHz
Characteristic Impedance	100 ± 10% Ω / 1 ~ 100 MHz; 100 ± 10% Ω / 100 ~ 250 MHz
Velocity of Propagation	66% nom.
Operating Voltage	1000 Vrms
Dielectric Strength	1000 Vrms / 1 minute DC
Coupling attenuation	≥ 55 dB @ 30 ~ 250 MHz

Operating conditions		
Temperature range	Static	-20°C to +50°C
	Dynamic	-40°C to +50°C
Bending radius	Static	4 x D
	Dynamic	8 x D

Dimensions	
Outer diameter	75 ± 0.2 mm
Cable weight	52 kg/km

Basic transmission characteristics (20°C)									
Frequency MHz	Attenuation dB/100m			NEXT dB			ELFEXT (dB/100m)		
	CAT 6 max.	HELENIC CABLES	CAT 6 min.	HELENIC CABLES	CAT 6 min.	HELENIC CABLES	CAT 6 min.	HELENIC CABLES	Return loss dB
1	21	19	75	90	68	86	21.0	30	
4	38	36	66	79	56	79	23.0	29	
10	60	56	60	76	48	76	26.0	33	
16	76	70	57	72	44	68	25.0	30	
32.5	10.7	99	53	67	38	64	23.6	29	
62.5	15.5	140	48	63	32	58	21.5	27	
100	19.9	178	46	62	28	52	20.1	26	
250	33.0	28.4	39	57	20	49	17.3	25	
300	-	31.2	-	51	-	44	-	30	
350	-	35.3	-	46	-	41	-	25	

Standards: IEC 61156-5, ISO/IEC 11801, EN 50173-1, EIA/TIA 568C.2



F/UTP 6
4x2x23 AWG - PE sheath

1. **Conductor:** 100% copper solid wire
2. **Insulation:** PE compound.
3. **Twisting:** 2 cores twisted in a pair
4. **Earth wire:** tinned copper wire
5. **Screen:** overlapped laminated aluminium foil
6. **Separating cross element:** MDPE compound
7. **Outer jacket:** Black PE

Description:

Data transmission cable F/UTP cat. 6, tested up to 350MHz, with PE sheath.

Application:

Application: Installation cables for structured horizontal cabling. These cables are ideal for LAN data transmission in all Ethernet (IEEE802.3) applications up to 1000Base-T. The foil screen prevents electromagnetic interference making them suitable for use in industrial environments. Comply with IEEE 802.3bt, 4PbPb.

Fire behavior:

Fca Dop

Basic electrical characteristics (20°C)	
DC Conductor Resistance	≤ 80 Ohm/km
Insulation Resistance	≥ 5000 MΩ·km / 500 VDC
Mutual Capacitance	≤ 50 pF / km / 10 kHz
Capacitance pair to ground	≤ 500 pF / km / 10 kHz
Characteristic Impedance	100 ± 8% Ω / 1-100 MHz
Velocity of Propagation	74% min / 100-250 MHz
Operating Voltage	1000 V max
Dielectric Strength	1000 V/min
Coupling attenuation	≥ 55 dB @ 30-250 MHz

Operating conditions	
Temperature range	Static -30°C to +70°C
	Dynamic -40°C to +50°C
Bending radius	Static 4 x D
	Dynamic 8 x D
Dimensions	
Outer diameter	75 ± 0.2 mm
Cable weight	48 kg/km

Basic transmission characteristics (20°C)									
Frequency MHz	Attenuation dB/100m			NEXT dB		ELEXF (dB/100m)		Return loss dB	
	CAT 6 max.	HELLENIC CABLES	CAT 6 min.	HELLENIC CABLES	CAT 6 min.	HELLENIC CABLES	CAT 6 min.	HELLENIC CABLES	
1	21	19	75	90	68	86	200	30	
4	38	36	66	76	56	79	230	29	
10	60	56	60	66	48	76	250	33	
16	76	70	57	72	44	68	250	30	
32,25	107	99	53	67	38	64	236	29	
62,5	155	140	48	63	32	58	215	27	
100	189	178	45	62	28	52	201	26	
250	330	284	39	57	20	49	173	25	
300	312	312	-	51	-	44	-	30	
350	-	353	-	46	-	41	-	25	

Standards: IEC 61156-5, ISO/IEC 11801, EN 50173-1, EIA/TIA 568C.2