Table of Contents

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Cat. 5e U/UTP Horizontal Cables, 100 MHz 4x2x24 AWG and 2x(4x2x24 AWG)

COMPLIANCE WITH

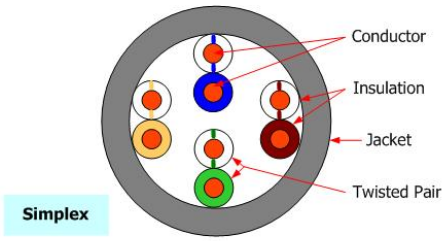
- ISO/IEC 11801:2002 Class D
- CENELEC EN 50173:2002
- ANSI/TIA/EIA-568-B.2
- IEC-60332-1
- UL 1581 VW-1

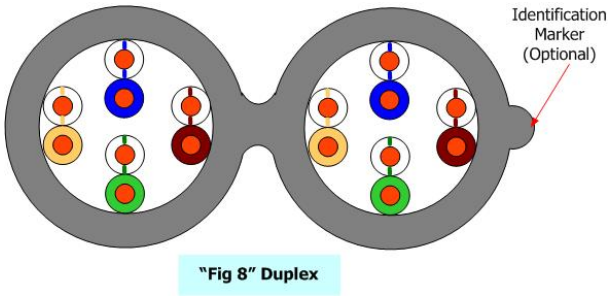
CABLE STANDARDS

- IEC 61156-5 Cat. 5e
- EN 50288-2-1

CONSTRUCTION

Conductor:	24 AWG bare copper
Insulation:	Solid polyolefin. Nominal diameter over insulation 0.93 mm
Pairs:	Two wires twisted into pairs with different lays (lay direction left)
Color code:	Blue white-blue, orange white-orange, green white-green and brown white-brown
Cabling:	4 twisted pairs cabled
Outer jacket material:	PVC or HFFR (LS0H)
Fig 8 construction:	Two cable with a connecting web forming a detachable cable pair.





TRANSMISSION PROPERTIES

Freq. MHz	Attenuation dB/100m	NEXT pp dB	ELFEXT pp dB/100m	Return Loss dB
	Max.	Min.	Min.	Min.
4	4.1	56	52	23.0
10	6.5	50	44	25.0
16	8.3	47	40	25.0
20	9.3	46	38	25.0
31.25	11.7	43	34	23.6
62.5	17.0	38	28	21.5
100	22.0	35	24	20.1

PSNEXT=pair to pair NEXT-3
PSELFEXT=pair to pair ELFEXT-3
ACR=pair to pair NEXT-Attenuation [dB/100m]
PSACR=pair to pair ACR-3 [dB/100m]

HIGH FREQUENCY ELECTRICAL PROPERTIES

Mean characteristic impedance (4-100 MHz)	Ω	100 ± 5
Nom. Velocity of Propagation		0.67C
Phase delay @ 100 MHz	ns/100 m	<536
Delay skew (4-100 MHz)	ns/100 m	<30

LOW FREQUENCY AND D.C. ELECTRICAL PROPERTIES

Mutual Capacitance @ 1 KHz	nF/km	52
DC resistance	Ω/km	<95
Capacitance unbalance to ground	pF/km	<1500
Resistance unbalance	%	<2
Insulation resistance	MΩ.m	> 5000
Dielectric strength	kV d.c./1min	1
Operating voltage	Volts	60

Cat. 5e U/UTP Horizontal Cables, 100 MHz 4x2x24 AWG and 2x(4x2x24 AWG)

ENVIRONMENTAL AND OTHER PROPERTIES

Operating temperature range	°C	-20 to +60
Installation temperature range	°C	-5 to +50
Max installation tensile load	kg	8
Min installation bend radius		12*cable OD
Min long term bend radius		8*cable OD
Flame retardancy (all cables)		IEC 60332-1 UL-1581 VW-1
Halogen content (HFFR cables)		IEC 60754-2
Smoke emission (HFFR cables)		IEC 61034

MARKING

Cables are typically marked as follows

Teldor Cables SuperLan 5e, Part Number, UTP 4x2x24 AWG 100 MHz, PVC, IEC 61156-5 Cat. 5e, IEC 60332-1, RoHS, length in m

or per customer request.

ORDERING

Consult the standard cable Part Numbers Table. Standard packaging: 500 meters on a wooden drum. Other packaging options, constructions and materials may be available. Please contact the Teldor Cables Marketing Department.

Cable Part Numbers and Description

Part Number	Cable Geometry	No. of Pairs	Wire Gage	Weight kg/km	Dimension mm	Jacket Material	Standard Jacket RAL/color	Caloric Value MJoule/km
611277	Circular simplex	4	24	33	5.2	PVC	7032 Grey	480
611447	Circular simplex	4	24	34	5.2	HFFR	7032 Grey	390
604900	Fig. “8” duplex	8	24	67	5.4x11	PVC	7032 Grey	960
611450	Fig. “8” duplex	8	24	69	5.4x11	HFFR	7032 Grey	780

Other jacket colors are available. Please specify.

Cat. 5e U/UTP Patch Cables, 100 MHz 4x2x26-7/34 AWG

COMPLIANCE WITH

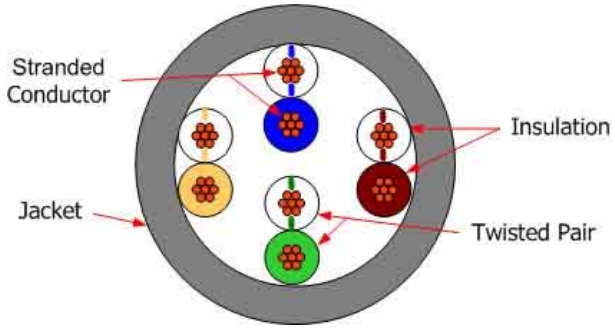
- ISO/IEC 11801:2002 Class D
- CENELEC EN 50173:2002
- ANSI/TIA/EIA-568-B.2
- IEC-60332-1
- UL 1581 VW-1

CABLE STANDARDS

- • IEC 61156-6 Cat. 5e
- • EN 50288-2-2

CONSTRUCTION

Conductor:	Stranded 34 AWG bare copper wires forming a 26 AWG conductor.
Insulation:	Solid polyolefin. nominal diameter over insulation 0.8 mm
Pairs:	Two wires twisted into pairs with different lays (lay direction left)
Color code:	Blue white-blue, orange white-orange, green white-green and brown white-brown
Cabling:	4 twisted pairs cabled
Outer jacket material:	PVC or HFFR (LS0H)



TRANSMISSION PROPERTIES

Freq. MHz	Attenuation dB/100m	NEXT pp dB	ELFEXT pp dB/100m	Return Loss dB
	Max.	Min.	Min.	Min.
4	6.0	56	52	23.0
10	9.5	50	44	25.0
16	12.1	47	40	25.0
20	13.5	46	38	25.0
31.25	17.1	43	34	23.3
62.5	24.8	38	28	20.7
100	32.0	35	24	19.0

PSNEXT=pair to pair NEXT-3
PSELFEXT=pair to pair ELFEXT-3
ACR=pair to pair NEXT-Attenuation [dB/100m]
PSACR=pair to pair ACR-3 [dB/100m]

HIGH FREQUENCY ELECTRICAL PROPERTIES

Mean characteristic impedance (4-100 MHz)	Ω	100 ± 5
Nom. Velocity of Propagation		0.67C
Phase delay @ 100 MHz	ns/100 m	<536
Delay skew (4-100 MHz)	ns/100 m	<30

LOW FREQUENCY AND D.C. ELECTRICAL PROPERTIES

Mutual Capacitance @ 1 KHz	nF/km	52
DC resistance	Ω/km	<144
Capacitance unbalance to ground	pF/km	<1500
Resistance unbalance	%	<2
Insulation resistance	MΩ.m	> 5000
Dielectric strength	kV d.c./1min	1
Operating voltage	Volts	60

Cat. 5e U/UTP Patch Cables, 100 MHz 4x2x26 AWG

ENVIRONMENTAL AND OTHER PROPERTIES

Operating temperature range	°C	-20 to +60
Installation temperature range	°C	-5 to +50
Max installation tensile load	kg	4
Min installation bend radius		12*cable OD
Min long term bend radius		8*cable OD
Flame retardancy (all cables)		IEC 60332-1 UL-1581 VW-1
Halogen content (HFFR cables)		IEC 60754-2
Smoke emission (HFFR cables)		IEC 61034

MARKING

Cables are typically marked as follows

Teldor Cables SuperLan 5e, Part Number, UTP Patch 4x2x26 AWG 100 MHz, PVC, IEC 61156-6 Cat. 5e, IEC 60332-1, RoHS, length in m

or per customer request.

ORDERING

Consult the standard cable Part Numbers Table. Standard packaging: 500 meters on a wooden drum. Other packaging options, constructions and materials may be available. Please contact the Teldor Cables Marketing Department.

Cable Part Numbers and Description

Part Number	Cable Geometry	No. of Pairs	Wire Gage	Weight kg/km	Dimension Mm	Jacket Material	Standard Jacket RAL/color	Caloric Value MJoule/km
600060	Circular simplex	4	26	33	5.3	PVC	7032 Grey	450
600070	Circular simplex	4	26	34	5.3	HFFR	7032 Grey	400

Other jacket colors are available. Please specify.

Cat. 5e F/UTP Horizontal Cables, 100 MHz 4x2x24 AWG and 2x(4x2x24 AWG)

COMPLIANCE WITH

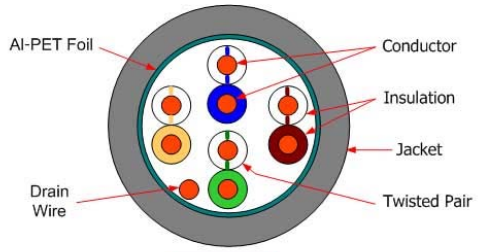
- ISO/IEC 11801:2002 Class D
- CENELEC EN 50173:2002
- ANSI/TIA/EIA-568-B.2
- IEC-60332-1
- UL 1581 VW-1

CABLE STANDARDS

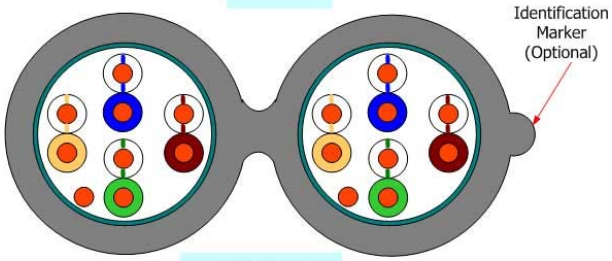
- IEC 61156-5 Cat. 5e
- EN 50288-2-1

CONSTRUCTION

Conductor:	24 AWG bare copper
Insulation:	Solid polyolefin. nominal diameter over insulation 1.06 mm
Pairs:	Two wires twisted into pairs with different lays (lay direction left)
Color code:	Blue white-blue, orange white-orange, green white-green and brown white-brown
Cabling:	4 twisted pairs cabled into the cable core.
Shielding:	Common polyester aluminum (Al-PET) foil, aluminum side facing inwards. A 26 AWG tinned copper drain wire in touch with the aluminum side of the foil.
Outer jacket material:	PVC or HFFR (LS0H)
Fig 8 construction:	Two cable with a connecting web forming a detachable cable pair.



Simplex



"Fig 8" Duplex

HIGH FREQUENCY ELECTRICAL PROPERTIES

Mean characteristic impedance (4-100 MHz)	Ω	100 ± 5
Nom. Velocity of Propagation		0.67C
Phase delay @ 100 MHz	ns/100 m	< 536
Delay skew (4-100 MHz)	ns/100 m	< 30
Transfer Impedance @ 30 MHz	mΩ/m	< 200

TRANSMISSION PROPERTIES

Freq. MHz	Attenuation dB/100m	NEXT pp dB	ELFEXT pp dB/100m	Return Loss dB
	Max.	Min.	Min.	Min.
4	4.1	56	52	23.0
10	6.5	50	44	25.0
16	8.3	47	40	25.0
20	9.3	46	38	25.0
31.25	11.7	43	34	23.6
62.5	17.0	38	28	21.5
100	22.0	35	24	20.1

PSNEXT=pair to pair NEXT-3
PSELFEXT=pair to pair ELFEXT-3
ACR=pair to pair NEXT-Attenuation [dB/100m]
PSACR=pair to pair ACR-3 [dB/100m]

LOW FREQUENCY AND DC ELECTRICAL PROPERTIES

Mutual Capacitance @ 1 KHz	nF/km	52
DC resistance	Ω/km	<95
Capacitance unbalance to ground	pF/km	<1500
Resistance unbalance	%	<2
Insulation resistance	MΩ.m	>5000
Dielectric strength	kV d.c./1min	1
Operating voltage	Volts	60

Cat. 5e F/UTP Horizontal Cables, 100 MHz 4x2x24 AWG and 2x(4x2x24 AWG)

ENVIRONMENTAL AND OTHER PROPERTIES

Operating temperature range	°C	-20 to +60
Installation temperature range	°C	-5 to +50
Max installation tensile load	kg	8
Min installation bend radius		12*cable OD
Min long term bend radius		8*cable OD
Flame retardancy (all cables)		IEC 60332-1 UL-1581 VW-1
Halogen content (HFFR cables)		IEC 60754-2
Smoke emission (HFFR cables)		IEC 61034

MARKING

Cables are typically marked as follows

Teldor Cables SuperLan 5e, Part Number, F/UTP 4x2x24 AWG 100 MHz, PVC, IEC 61156-5 Cat. 5e, IEC 60332-1, RoHS, length in m

or per customer request.

ORDERING

Consult the standard cable Part Numbers Table. Standard packaging: 500 meters on a wooden drum. Other packaging options, constructions and materials may be available. Please contact the Teldor Cables Marketing Department.

Cable Part Numbers and Description

Part Number	Cable Geometry	No. of Pairs	Wire Gage	Weight kg/km	Dimension mm	Jacket Material	Standard Jacket RAL/color	Caloric Value MJoule/km
611278	Circular simplex	4	24	40	6.0	PVC	7032 Grey	450
610754	Circular simplex	4	24	40	6.0	HFFR	7032 Grey	400
612098	Circular Outdoor(*)	4	24	72	7.9	PVC	9005 Black	1000
610906	Fig. 8 Duplex	8	24	85	6.2x12.5	PVC	7032 Grey	1000
611332	Fig. 8 Duplex	8	24	85	6.2x12.5	HFFR	7032 Grey	900

(*) Outdoor data cables should not be immersed in water or exposed to excessive humidity.

Other jacket colors are available. Please specify.

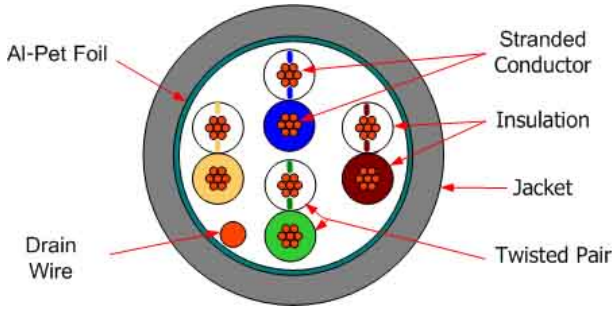
Cat. 5e F/UTP Patch Cables, 100 MHz 4x2x26 AWG

COMPLIANCE WITH

- ISO/IEC 11801:2002 Class D
- CENELEC EN 50173:2002
- ANSI/TIA/EIA-568-B.2
- IEC-60332-1
- UL 1581 VW-1

CABLE STANDARDS

- • IEC 61156-6 Cat. 5e
- • EN 50288-2-2



CONSTRUCTION

Conductor:	Stranded 34 AWG bare copper wires forming a 26 AWG conductor.
Insulation:	Solid polyolefin. nominal diameter over insulation 0.87 mm
Pairs:	Two wires twisted into pairs with different lays (lay direction left)
Color code:	blue white-blue, orange white-orange, green white-green and brown white-brown
Cabling:	4 twisted pairs cabled
Shielding:	Common polyester aluminum (Al-PET) foil, aluminum side facing inwards. A 26-7/34 AWG tinned copper drain wire in touch with the aluminum side of the foil
Outer jacket material:	PVC or HFFR (LS0H)

TRANSMISSION PROPERTIES

Freq. MHz	Attenuation dB/100m	NEXT pp dB	ELFEXT pp dB/100m	Return Loss dB
	Max.	Min.	Min.	Min.
4	6.0	56	52	23.0
10	9.5	50	44	25.0
16	12.1	47	40	25.0
20	13.5	46	38	25.0
31.25	17.1	43	34	23.3
62.5	24.8	38	28	20.7
100	32.0	35	24	19.0

PSNEXT=pair to pair NEXT-3
PSELFEXT=pair to pair ELFEXT-3
ACR=pair to pair NEXT-Attenuation [dB/100m]
PSACR=pair to pair ACR-3 [dB/100m]

HIGH FREQUENCY ELECTRICAL PROPERTIES

Mean characteristic impedance (4-100 MHz)	Ω	100 ± 5
Nom. velocity of propagation		0.67C
Phase delay @ 100 MHz	ns/100 m	<536
Delay skew (4-100 MHz)	ns/100 m	<30
Transfer Impedance @ 30 MHz	mΩ/m	< 200

LOW FREQUENCY AND D.C. ELECTRICAL PROPERTIES

Mutual Capacitance @ 1 KHz	nF/km	52
DC resistance	Ω/km	<144
Capacitance unbalance to ground	pF/km	<1500
Resistance unbalance	%	<2
Insulation resistance	MΩ.m	> 5000
Dielectric strength	kV d.c./1min	1
Operating voltage	Volts	60

Cat. 5e F/UTP Patch Cables, 100 MHz 4x2x26 AWG

ENVIRONMENTAL AND OTHER PROPERTIES

Operating temperature range	°C	-20 to +60
Installation temperature range	°C	-5 to +50
Max installation tensile load	kg	4
Min installation bend radius		12*cable OD
Min long term bend radius		8*cable OD
Flame retardancy (all cables)		IEC 60332-1 UL-1581 VW-1
Halogen content (HFFR cables)		IEC 60754-2
Smoke emission (HFFR cables)		IEC 61034

MARKING

Cables are typically marked as follows

Teldor Cables SuperLan 5e, Part Number, F/UTP Patch 4x2x26 AWG 100 MHz, PVC, IEC 61156-6 Cat. 5e, IEC 60332-1, RoHS, length in m

or per customer request.

ORDERING

Consult the standard cable Part Numbers Table. Standard packaging: 500 meters on a wooden drum. Other packaging options, constructions and materials may be available. Please contact the Teldor Cables Marketing Department.

Cable Part Numbers and Description

Part Number	Cable Geometry	No. of Pairs	Wire Gage	Weight kg/km	Dimension mm	Jacket Material	Standard Jacket RAL/color	Caloric Value MJoule/km
605317	Circular simplex	4	26	30	5.3	PVC	7032 Grey	450
612370	Circular simplex	4	26	31	5.3	HFFR	7032 Grey	400

Other jacket colors are available. Please specify.

Cat. 5e SF/UTP Horizontal, 100 MHz 4x2x24 AWG and 2x(4x2x24 AWG)

COMPLIANCE WITH

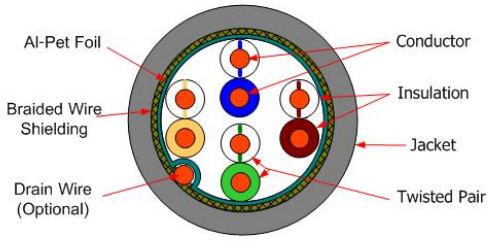
- ISO/IEC 11801:2002 Class D
- CENELEC EN 50173:2002
- ANSI/TIA/EIA-568-B.2
- IEC-60332-1
- UL 1581 VW-1

CABLE STANDARDS

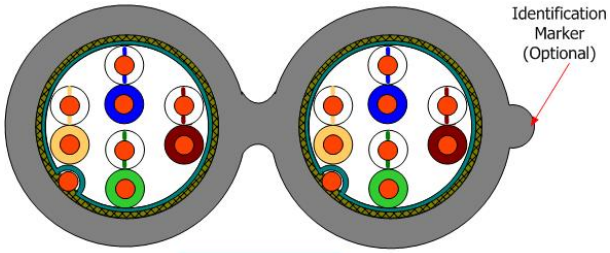
- IEC 61156-5 Cat. 5e
- EN 50288-2-1

CONSTRUCTION

Conductor:	24 AWG BC
Insulation:	Solid polyolefin. Nominal diameter over insulation 1.05 mm
Pairs:	Two wires twisted into pairs with different lays (lay direction left)
Pairs color code:	blue white-blue, orange white-orange, green white-green and brown white-brown
Cabling:	4 twisted pairs cabled into the cable core
Shielding:	Common foil and braided copper wires over cabled unit: o Foil shielding: polyester aluminum tape, aluminum side facing outwards o Drain wire: optional 26 AWG tinned copper (between foil and braiding) o Braided shielding: tinned copper wires
Outer jacket material:	PVC or HFFR
Fig 8 construction:	Two cables with a connecting web forming a detachable cable pair.



Simplex



"Fig 8" Duplex

TRANSMISSION PROPERTIES

Freq. MHz	Attenuation dB/100m	NEXT pp dB	ELFEXT pp dB/100m	Return Loss dB
	Max.	Min.	Min.	Min.
4	4.1	56	52	23.0
10	6.5	50	44	25.0
16	8.3	47	40	25.0
20	9.3	46	38	25.0
31.25	11.7	43	34	23.6
62.5	17.0	38	28	21.5
100	22.0	35	24	20.1

PSNEXT=pair to pair NEXT-3
PSELFEXT=pair to pair ELFEXT-3
ACR=pair to pair NEXT-Attenuation [dB/100m]
PSACR=pair to pair ACR-3 [dB/100m]

Cat. 5e SF/UTP Horizontal, 100 MHz 4x2x24 AWG and 2x(4x2x24 AWG)

HIGH FREQUENCY ELECTRICAL PROPERTIES

Mean characteristic impedance (4-100 MHz)	Ω	100 ± 5
Nom. velocity of propagation		0.67C
Phase delay @ 100 MHz	ns/100 m	< 536
Delay skew (4-100 MHz)	ns/100 m	< 30
Transfer Impedance @ 30 MHz	mΩ/m	< 30

LOW FREQUENCY AND DC ELECTRICAL PROPERTIES

Mutual Capacitance @ 1 KHz	nF/km	52
DC resistance	Ohm/km	<95
Capacitance unbalance to ground	pF/km	<1500
Resistance unbalance	%	<2
Insulation resistance	MΩ.m	>5000
Dielectric strength	kV d.c./1min	1
Operating voltage	Volts	60

ENVIRONMENTAL AND OTHER PROPERTIES

Operating temperature range	°C	-20 to +60
Installation temperature range	°C	-5 to +50
Max installation tensile load	kg	8
Min installation bend radius		12*cable OD
Min long term bend radius		8*cable OD
Flame retardancy (all cables)		IEC 60332-1 UL-1581 VW-1
Halogen content (HFFR cables)		IEC 60754-2
Smoke emission (HFFR cables)		IEC 61034

MARKING

Cables are typically marked as follows

Teldor Cables SuperLan 5e, Part Number, S/FTP 4x2/24 AWG 100 MHz, PVC, IEC 61156-5 Cat. 5e, IEC 60332-1, RoHS, length in m

or per customer request.

ORDERING

Consult the standard cable Part Numbers Table. Standard packaging: 500 meters on a wooden drum. Other packaging options, constructions and materials may be available. Please contact the Teldor Cables Marketing Department.

Cable Part Numbers and Description

Part Number	Cable Geometry	No. of Pairs	Wire Gage	Weight kg/km	Dimension mm	Jacket Material	Standard Jacket RAL/color	Caloric Value MJoule/km
611196	Circular simplex	4	24	52	6.5	PVC	7032 Grey	580
611358	Circular simplex	4	24	53	6.5	HFFR	7032 Grey	480
611359	Fig. 8 Duplex	8	24	109	6.6x14	HFFR	7032 Grey	960

Other jacket colors are available. Please specify.

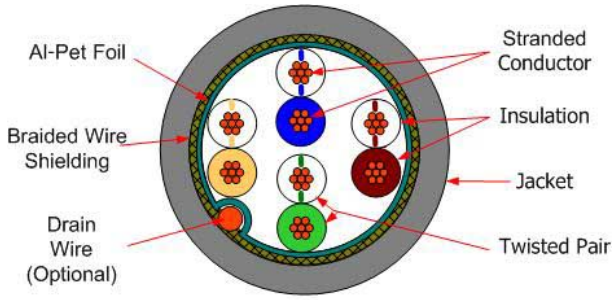
Cat. 5e SF/UTP Patch Cables, 100 MHz 4x2x26 AWG

COMPLIANCE WITH

- ISO/IEC 11801:2002 Class D
- CENELEC EN 50173:2002
- ANSI/TIA/EIA-568-B.2
- IEC-60332-1
- UL 1581 VW-1

CABLE STANDARDS

- • IEC 61156-6 Cat. 5e
- • EN 50288-2-2



CONSTRUCTION

Conductor:	Stranded 34 AWG bare copper wires forming a 26 AWG conductor
Insulation:	Solid polyolefin. Nominal diameter over insulation 0.87 mm
Pairs:	Two wires twisted into pairs with different lays (lay direction left)
Pairs color code:	blue white-blue, orange white-orange, green white-green and brown white-brown
Cabling:	4 twisted pairs cabled into the cable core
Shielding:	Common foil and braided copper wires over cabled unit: o Foil shielding: polyester aluminum tape, aluminum side facing outwards o Drain wire: optional 26 AWG tinned copper (between foil and braiding) o Braided shielding: tinned copper wires
Outer jacket material:	PVC or HFFR

TRANSMISSION PROPERTIES

Freq. MHz	Attenuation dB/100m	NEXT pp dB	ELFEXT pp dB/100m	Return Loss dB
	Max.	Min.	Min.	Min.
4	6.0	56	52	23.0
10	9.5	50	44	25.0
16	12.1	47	40	25.0
20	13.5	46	38	25.0
31.25	17.1	43	34	23.3
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100	32.0	35	24	19.0

PSNEXT=pair to pair NEXT-3
PSELFEXT=pair to pair ELFEXT-3
ACR=pair to pair NEXT-Attenuation [dB/100m]
PSACR=pair to pair ACR-3 [dB/100m]

HIGH FREQUENCY ELECTRICAL PROPERTIES

Mean characteristic impedance (4-100 MHz)	Ω	100 ± 5
Nom. velocity of propagation		0.67C
Phase delay @ 100 MHz	ns/100 m	<536
Delay skew (4-100 MHz)	ns/100 m	<30
Transfer Impedance @ 30 MHz	mΩ/m	< 30

Cat. 5e SF/UTP Patch Cables, 100 MHz 4x2x26 AWG

LOW FREQUENCY AND D.C. ELECTRICAL PROPERTIES

Mutual Capacitance @ 1 KHz	nF/km	52
DC resistance	Ω/km	<144
Capacitance unbalance to ground	pF/km	<1500
Resistance unbalance	%	<2
Insulation resistance	MΩ.m	> 5000
Dielectric strength	kV d.c./1min	1
Operating voltage	Volts	60

ENVIRONMENTAL AND OTHER PROPERTIES

Operating temperature range	°C	-20 to +60
Installation temperature range	°C	-5 to +50
Max installation tensile load	kg	4
Min installation bend radius		12*cable OD
Min long term bend radius		8*cable OD
Flame retardancy (all cables)		IEC 60332-1 UL-1581 VW-1
Halogen content (HFFR cables)		IEC 60754-2
Smoke emission (HFFR cables)		IEC 61034

MARKING

Cables are typically marked as follows

Teldor Cables SuperLan 5e, Part Number, S/FTP Patch 4x2x26 AWG 100 MHz, PVC, IEC 61156-6 Cat. 5e, IEC 60332-1, RoHS, length in m

or per customer request.

ORDERING

Consult the standard cable Part Numbers Table. Standard packaging: 500 meters on a wooden drum. Other packaging options, constructions and materials may be available. Please contact the Teldor Cables Marketing Department.

Cable Part Numbers and Description

Part Number	Cable Geometry	No. of Pairs	Wire Gage	Weight kg/km	Dimension mm	Jacket Material	Standard Jacket RAL/color	Caloric Value MJoule/km
611198	Circular simplex	4	26	40	5.8	PVC	7032 Grey	500
612296	Circular simplex	4	26	42	5.8	HFFR	7032 Grey	450

Other jacket colors are available. Please specify.

Cat. 6 U/UTP Horizontal Cables, 250 MHz 4x2x23 AWG and 2x(4x2x23 AWG)

COMPLIANCE WITH

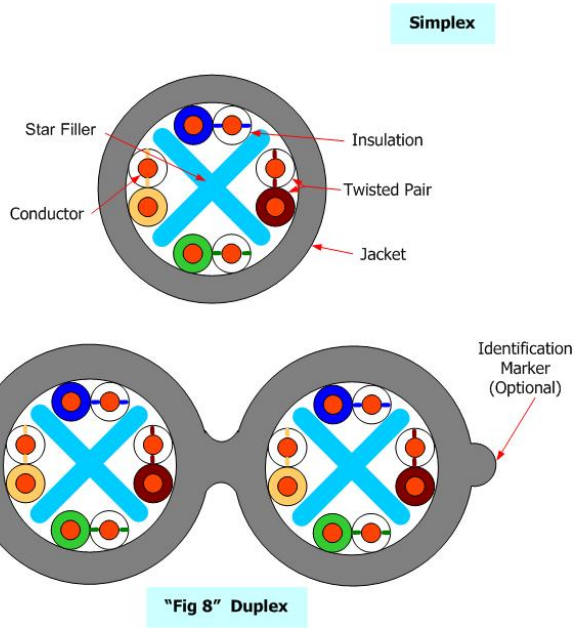
- ISO/IEC 11801:2002 Class E
- CENELEC EN 50173:2002
- ANSI/TIA/EIA-568-B.2
- IEC-60332-1
- UL 1581 VW-1

CABLE STANDARDS

- IEC 61156-5 Cat. 6
- EN 50288-5-1

CONSTRUCTION

Conductor:	23 AWG BC.
Insulation:	Solid polyolefin. Nominal diameter over insulation 1.0 mm
Pairs:	Two wires twisted into pairs with different lays (lay direction left)
Pairs color code:	Blue white-blue, orange white-orange, green white-green and brown white-brown
Cabling:	4 twisted pairs cabled around a cross shaped central filler into the cable core
Outer jacket material:	PVC or HFFR (LS0H)
Fig 8 construction:	Two cables with a connecting web forming a detachable cable pair.



TRANSMISSION PROPERTIES

Freq. MHz	Attenuation dB/100m	NEXT pp dB	ELFEXT pp dB/100m	Return Loss dB
	Max.	Min.	Min.	Min.
4	3.8	66	56	23.0
10	6.0	60	48	25.0
16	7.6	57	44	25.0
20	8.5	56	42	25.0
31.25	10.8	53	38	23.6
62.5	15.5	48	32	21.5
100	19.9	45	28	20.1
200	29.2	41	22	18.0
250	33.0	39	20	17.3

PSNEXT=pair to pair NEXT-3
PSELFEXT=pair to pair ELFEXT-3
ACR=pair to pair NEXT-Attenuation [dB/100m]
PSACR=pair to pair ACR-3 [dB/100m]

HIGH FREQUENCY ELECTRICAL PROPERTIES

Mean characteristic impedance (4-100 MHz)	Ω	100 ± 5
Nom. velocity of propagation		0.67C
Phase delay @ 250 MHz	ns/100 m	<536
Delay skew (4-250 MHz)	ns/100 m	<30

LOW FREQUENCY AND DC ELECTRICAL PROPERTIES

Mutual Capacitance @ 1 KHz	nF/km	45
DC resistance	Ω/km	<75
Capacitance unbalance to ground	pF/km	<1500
Resistance unbalance	%	<2
Insulation resistance	MΩ.m	> 5000
Dielectric strength	kV d.c./1min	1
Operating voltage	Volts	60

Cat. 6 U/UTP Horizontal Cables, 250 MHz 4x2x23 AWG and 2x(4x2x23 AWG)

ENVIRONMENTAL AND OTHER PROPERTIES

Operating temperature range	°C	-20 to +60
Installation temperature range	°C	-5 to +50
Max installation tensile load	kg	8
Min installation bend radius		12*cable OD
Min long term bend radius		8*cable OD
Flame retardancy (all cables)		IEC 60332-1 UL-1581 VW-1
Halogen content (HFFR cables)		IEC 60754-2
Smoke emission (HFFR cables)		IEC 61034

MARKING

Cables are marked as follows

Teldor Cables SuperLan 6, Part Number, UTP 4x2x23 AWG 250 MHz, PVC, IEC 61156-5 Cat. 6, IEC 60332-1, RoHS, length in m

or per customer request.

ORDERING

Consult the standard cable Part Numbers Table. Standard packaging: 500 meters on a wooden drum. Other packaging options, constructions and materials may be available. Please contact the Teldor Cables Marketing Department.

Cable Part Numbers and Description

Part Number	Cable Geometry	No. of Pairs	Wire Gage	Weight kg/km	Dimension mm	Jacket Material	Standard Jacket RAL/color	Caloric Value MJoule/km
611924	Circular simplex	4	23	45	6.6	PVC	7032 Grey	480
611281	Circular simplex	4	23	46	6.6	HFFR	7032 Grey	390
611477	Fig. “8” duplex	8	23	101	6.5x13.4	PVC	7032 Grey	960
611478	Fig. “8” duplex	8	23	103	6.5x13.4	HFFR	7032 Grey	780

Other jacket colors are available. Please specify.

Cat. 6 F/UTP Horizontal Cables, 250 MHz 4x2x24 AWG and 2x(4x2x24 AWG)

COMPLIANCE WITH

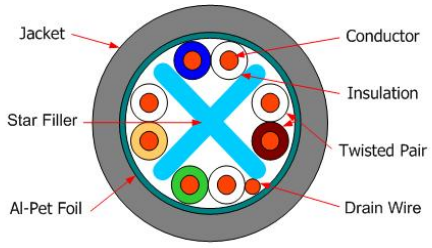
- ISO/IEC 11801:2002 Class E
- CENELEC EN 50173:2002
- ANSI/TIA/EIA-568-B.2
- IEC-60332-1
- UL 1581 VW-1

CABLE STANDARDS

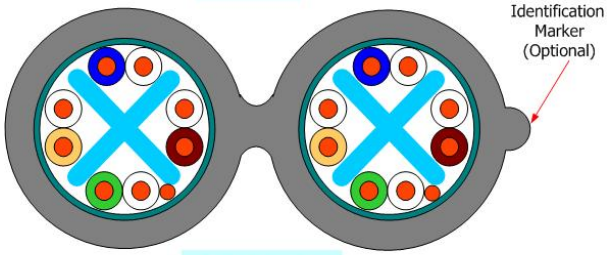
- IEC 61156-5 Cat. 6
- EN 50288-5-1

CONSTRUCTION

Conductor:	24 AWG bare copper
Insulation:	Foam Skin polyolefin. Nominal diameter over insulation 1.0 mm
Pairs:	Two wires twisted into pairs with different lays (lay direction right)
Pairs color code:	blue white, orange white, green white and brown white
Cabling:	4 twisted pairs cabled around a cross shaped central filler into the cable core, wrapped with a polyester tape
Shielding:	Common polyester aluminum (Al-PET) foil, aluminum side facing inwards. A 0.5 mm tinned copper drain wire in touch with the aluminum side
Outer jacket material:	PVC or HFFR (LS0H)
Fig 8 construction:	Two cables with a connecting web forming a detachable cable pair.



Simplex



"Fig 8" Duplex

HIGH FREQUENCY ELECTRICAL PROPERTIES

Mean characteristic impedance (4-100 MHz)	Ω	100 ± 5
Nom. velocity of propagation		0.75C
Phase delay @ 250 MHz	ns/100 m	<536
Delay skew (4-250 MHz)	ns/100 m	<30
Transfer Impedance @ 30 MHz	mΩ/m	< 30

TRANSMISSION PROPERTIES

Freq. MHz	Attenuation dB/100m	NEXT pp dB	ELFEXT pp dB/100m	Return Loss dB
	Max.	Min.	Min.	Min.
4	3.8	66	56	23.0
10	6.0	60	48	25.0
16	7.6	57	44	25.0
20	8.5	56	42	25.0
31.25	10.8	53	38	23.3
62.5	15.5	48	32	21.5
100	19.9	45	28	20.1
200	29.2	41	22	18.0
250	33.0	39	20	17.3

PSNEXT=pair to pair NEXT-3
PSELFEXT=pair to pair ELFEXT-3
ACR=pair to pair NEXT-Attenuation [dB/100m]
PSACR=pair to pair ACR-3 [dB/100m]

LOW FREQUENCY AND DC ELECTRICAL PROPERTIES

Mutual Capacitance @ 1 KHz	nF/km	45
DC resistance	Ω/km	<95
Capacitance unbalance to ground	pF/km	<1500
Resistance unbalance	%	<2
Insulation resistance	MΩ.m	> 5000
Dielectric strength	kV d.c./1min	1
Operating voltage	Volts	60

Cat. 6 F/UTP Horizontal Cables, 250 MHz 4x2x24 AWG and 2x(4x2x24 AWG)

ENVIRONMENTAL AND OTHER PROPERTIES

Operating temperature range	°C	-20 to +60
Installation temperature range	°C	-5 to +50
Max installation tensile load	kg	8
Min installation bend radius		12*cable OD
Min long term bend radius		8*cable OD
Flame retardancy (all cables)		IEC 60332-1 UL-1581 VW-1
Halogen content (HFFR cables)		IEC 60754-2
Smoke emission (HFFR cables)		IEC 61034

MARKING

Cables are marked as follows

Teldor Cables SuperLan 6, Part Number, F/UTP 4x2x24 AWG 250 MHz, PVC, IEC 61156-5 Cat. 6, IEC 60332-1, RoHS, length in m

or per customer request.

ORDERING

Consult the standard cable Part Numbers Table. Standard packaging: 500 meters on a wooden drum. Other packaging options, constructions and materials may be available. Please contact the Teldor Cables Marketing Department.

Cable Part Numbers and Description

Part Number	Cable Geometry	No. of Pairs	Wire Gage	Weight kg/km	Dimension mm	Jacket Material	Standard Jacket RAL/color	Caloric Value MJoule/km
611926	Circular simplex	4	24	52	7.0	HFFR	7032 Grey	400
611849	Fig. “8” duplex	8	24	109	7.0x14.5	HFFR	7032 Grey	800

Other jacket colors are available. Please specify.

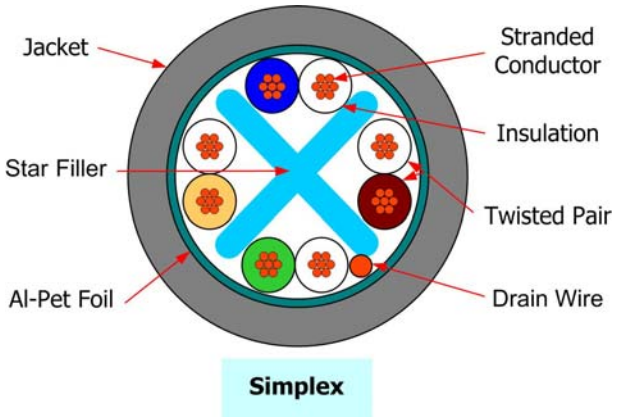
Cat. 6 F/UTP Patch Cables, 250 MHz 4x2x26 AWG

COMPLIANCE WITH

- ISO/IEC 11801:2002 Class E
- CENELEC EN 50173:2002
- ANSI/TIA/EIA-568-B.2
- IEC-60332-1
- UL 1581 VW-1

CABLE STANDARDS

- IEC 61156-6 Cat. 6
- EN 50288-5-2



CONSTRUCTION

Conductor:	Stranded 34 AWG bare copper wires forming a 26 AWG conductor
Insulation:	Solid polyolefin. Nominal diameter over insulation 0.87 mm
Pairs:	Two wires twisted into pairs with different lays (lay direction left)
Pairs color code:	blue-white-blue, orange-white-orange, green-white-green and brown-white-brown
Cabling:	4 twisted pairs cabled around a cross shaped central filler into the cable core, wrapped with a polyester tape
Shielding:	Common polyester aluminum (Al-PET) foil, aluminum side facing inwards. A 26 AWG mm tinned copper drain wire in touch with the aluminum side
Outer jacket material:	PVC or HFFR (LS0H).

TRANSMISSION PROPERTIES

Freq. MHz	Attenuation dB/100m	NEXT pp dB	ELFEXT pp dB/100m	Return Loss dB
	Max.	Min.	Min.	Min.
4	5.8	66	56	23.0
10	9.0	60	48	25.0
16	11.4	57	44	25.0
20	12.8	56	42	25.0
31.25	16.1	53	38	23.3
62.5	23.3	48	32	20.7
100	29.9	45	28	19.0
200	43.8	41	22	16.4
250	49.7	39	20	15.6

PSNEXT=pair to pair NEXT-3
PSELFEXT=pair to pair ELFEXT-3
ACR=pair to pair NEXT-Attenuation [dB/100m]
PSACR=pair to pair ACR-3 [dB/100m]

HIGH FREQUENCY ELECTRICAL PROPERTIES

Mean characteristic impedance (4-100 MHz)	Ω	100 ± 5
Nom. velocity of propagation		0.67C
Phase delay @ 250 MHz	ns/100 m	<536
Delay skew (4-250 MHz)	ns/100 m	<30
Transfer Impedance @ 30 MHz	mΩ/m	< 30

LOW FREQUENCY AND DC ELECTRICAL PROPERTIES

Mutual Capacitance @ 1 KHz	nF/km	45
DC resistance	Ω/km	<144
Capacitance unbalance to ground	pF/km	<1500
Resistance unbalance	%	<2
Insulation resistance	MΩ.m	> 5000
Dielectric strength	kV d.c./1min	1
Operating voltage	Volts	60

Cat. 6 F/UTP Patch Cables, 250 MHz 4x2x26 AWG

ENVIRONMENTAL AND OTHER PROPERTIES

Operating temperature range	°C	-20 to +60
Installation temperature range	°C	-5 to +50
Max installation tensile load	kg	4
Min installation bend radius		12*cable OD
Min long term bend radius		8*cable OD
Flame retardancy (all cables)		IEC 60332-1 UL-1581 VW-1
Halogen content (HFFR cables)		IEC 60754-2
Smoke emission (HFFR cables)		IEC 61034

MARKING

Cables are marked as follows

Teldor Cables SuperLan 6, Part Number, F/UTP Patch 4x2x26 AWG 250 MHz, PVC, IEC 61156-6 Cat. 6, IEC 60332-1, RoHS, length in m

or per customer request.

ORDERING

Consult the standard cable Part Numbers Table. Standard packaging: 500 meters on a wooden drum. Other packaging options, constructions and materials may be available. Please contact the Teldor Cables Marketing Department.

Cable Part Numbers and Description

Part Number	Cable Geometry	No. of Pairs	Wire Gage	Weight kg/km	Dimension mm	Jacket Material	Standard Jacket RAL/color	Caloric Value MJoule/km
612276	Circular simplex	4	26	35	5.9	PVC	7032 Grey	450
612370	Circular simplex	4	26	36	5.9	HFFR	7032 Grey	400

Other jacket colors are available. Please specify.

Cat. 6_A U/FTP Horizontal Cables, 500 MHz 4x2x23 AWG, 2x(4x2x23 AWG) and Drop

COMPLIANCE WITH

- ISO/IEC 11801 draft, Class E_A
- CENELEC EN 50173:2002
- ANSI/TIA/EIA-568-B.2
- IEC-60332-1
- UL 1581 VW-1
- IEEE 802.3an 10GBASE-T

CABLE STANDARDS

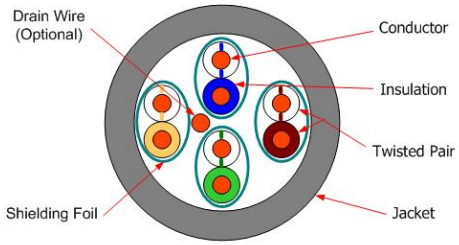
- IEC 61156-5 Cat. 6A NCD 5.2007
- EN 50288-5-1

CONSTRUCTION

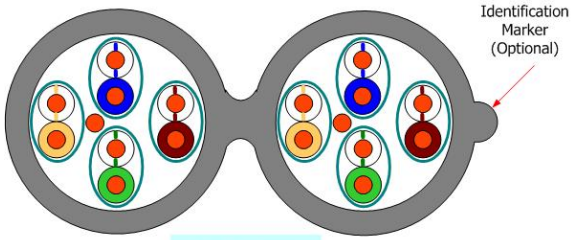
Conductor:	23 AWG bare copper
Insulation:	Foam-Skin polyolefin. Nominal diameter over insulation 1.35 mm
Pairs:	Two wires twisted into pairs with different lays (lay direction left)
Pairs color code:	white-blue, white-orange, white-green and white-brown
Cabling:	4 twisted pairs cabled to form the cable core
Shielding:	Individual aluminum-polyester foil over each pair. Aluminum facing outwards. Optional 26 AWG drain wire in the cable core center
Outer jacket material:	PVC or HFFR (LS0H)
Fig 8 construction:	Two cables with a connecting web forming a detachable cable pair
Dielectric Self-Supporting "Drop" construction	A square fiberglass reinforced self-supporting messenger element to allow the cable to be used in Drops (see drawing).

DROP CABLES

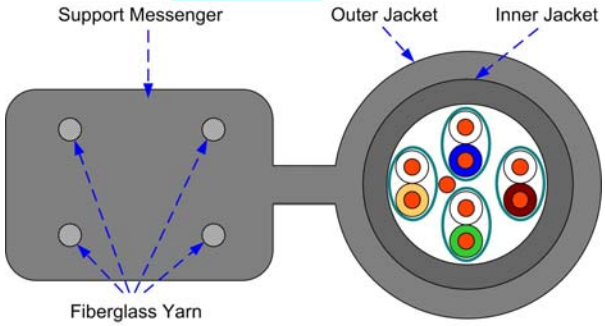
Drop cables are designed for a maximum span of 60 m. The recommended maximum installation tension is 300 N. The maximum span may have to be reduced if the cable is subjected to extremely harsh environmental conditions such as strong winds and excessive ice build-up. Calculating the maximum span under such extreme weather conditions should take into account that the clamped drop cable can withstand no more than 1200 N tensile load.
For more information please contact Teldor Cables.



Simplex



"Fig 8" Duplex



"Drop" Cable Construction

TRANSMISSION PROPERTIES

Freq. MHz	Attenuation dB/100m	NEXT pp dB	ELFEXT pp dB/100m	Return Loss dB
	Max.	Min.	Min.	Min.
4	3.8	66	56	23.0
10	5.9	60	48	25.0
16	7.5	57	44	25.0
20	8.4	56	42	25.0
31.25	10.5	53	38	23.3
62.5	15.0	48	32	21.5
100	19.1	45	28	20.1
200	27.6	41	22	18.0
250	31.1	39	20	17.3
500	45.3	35	14	17.3

PSNEXT=pair to pair NEXT-3
PSELFEXT=pair to pair ELFEXT-3
ACR=pair to pair NEXT-Attenuation [dB/100m]
PSACR=pair to pair ACR-3 [dB/100m]

Cat. 6_A U/FTP Horizontal Cables, 500 MHz 4x2x23 AWG, 2x(4x2x23 AWG) and Drop

HIGH FREQUENCY ELECTRICAL PROPERTIES

Mean characteristic impedance (4-100 MHz)	Ω	100 ± 5
Nom. velocity of propagation		0.78C
Phase delay @ 500 MHz	ns/100 m	<536
Delay skew (4-500 MHz)	ns/100 m	<30
Transfer Impedance @ 30 MHz	mΩ/m	< 30

LOW FREQUENCY AND DC ELECTRICAL PROPERTIES

Mutual Capacitance @ 1 KHz	nF/km	45
DC resistance	Ω/km	<75
Capacitance unbalance to ground	pF/km	<1500
Resistance unbalance	%	<2
Insulation resistance	MΩ.m	> 5000
Dielectric strength	kV d.c./1min	1
Operating voltage	Volts	60

ENVIRONMENTAL AND OTHER PROPERTIES

Operating temperature range	°C	-20 to +60
Installation temperature range	°C	-5 to +50
Max installation tensile load	kg	8
Min installation bend radius		8*cable OD
Min long term bend radius		8*cable OD
Flame retardancy (*)		IEC 60332-1 UL-1581 VW-1
Halogen content (HFFR cables)		IEC 60754-2
Smoke emission (HFFR cables)		IEC 61034

(*) PE-over-jacketed Drop cables meet the flammability tests only after removal of the outer jacket and messenger wire.

CLAMPS

Special clamps are available to properly clamp and support the Drop cable. See clamp drawing. The clamps are available from Teldor Cables under Teldor Cables part number 490007-D.

MARKING

Cables are marked as follows

Teldor Cables SuperLan 6, Part Number, STP 4x2x23 AWG 500 MHz, HFFR, IEC 61156-5 Cat. 6, IEC 60332-1, RoHS, length in m

or per customer request.

ORDERING

Consult the standard cable Part Numbers Table. Standard packaging: 500 meters on a wooden drum. Other packaging options, constructions and materials may be available. Please contact the Teldor Cables Marketing Department.

Cable Part Numbers and Description

Part Number	Cable Geometry	No. of Pairs	Wire Gage	Weight kg/km	Dimension mm	Jacket Material	Standard Jacket RAL/color	Caloric Value MJoule/km
611282	Circular simplex	4	24	51	7.1	PVC	7032 Grey	500
611356	Circular simplex	4	24	52	7.1	HFFR	7032 Grey	450
611357	Fig. 8 Duplex	8	24	110	7.1x15.0	HFFR	7032 Grey	900
612476	Fig. 8 Duplex	8	24	106	7.1x15.0	PVC	7032 Grey	1000
611855	Circular Outdoor(*)	4	24	130	10.8	PVC	9005 Black	2000
612779	Outdoor Drop (*)	4	24	170	8.2x15.7	PVC	9005 Black	3100

(*) Outdoor data cables should not be immersed in water or exposed to excessive humidity.

Other jacket colors are available. Please specify.

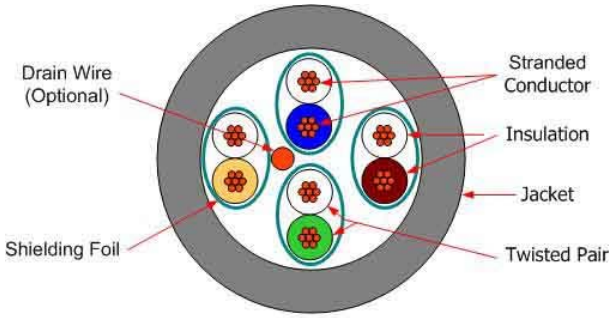
Cat. 6_A U/FTP Patch Cables, 500 MHz 4x2x26 AWG

COMPLIANCE WITH

- ISO/IEC 11801 draft, Class E_A
- CENELEC EN 50173:2002
- ANSI/TIA/EIA-568-B.2
- IEC-60332-1
- UL 1581 VW-1
- IEEE 802.3an 10GBASE-T

CABLE STANDARDS

- IEC 61156-6 Cat. 6A
- EN 50288-5-2



CONSTRUCTION

Conductor:	Stranded 34 AWG bare copper wires forming a 26 AWG conductor
Insulation:	Foam-Skin polyolefin. Nominal diameter over insulation 1.0 mm
Pairs:	Two wires twisted into pairs with different lays (lay direction left)
Pairs color code:	white-blue, white-orange, white-green and white-brown
Cabling:	4 twisted pairs cabled to form the cable core
Shielding:	Individual aluminum-polyester foil over each pair. Aluminum facing outwards. Optional 26 AWG drain wire in the cable core center
Outer jacket material:	PVC or HFFR (LS0H)

TRANSMISSION PROPERTIES

Freq. MHz	Attenuation dB/100m	NEXT pp dB	ELFEXT pp dB/100m	Return Loss dB
	Max.	Min.	Min.	Min.
4	5.8	66	56	23.0
10	9.0	60	48	25.0
16	11.4	57	44	25.0
20	12.8	56	42	25.0
31.25	16.1	53	38	23.3
62.5	23.3	48	32	20.7
100	29.9	45	28	19.0
200	43.8	41	22	16.4
250	49.7	39	20	15.6
500	74.1	35	14	15.6

PSNEXT=pair to pair NEXT-3
PSELFEXT=pair to pair ELFEXT-3
ACR=pair to pair NEXT-Attenuation [dB/100m]
PSACR=pair to pair ACR-3 [dB/100m]

HIGH FREQUENCY ELECTRICAL PROPERTIES

Mean characteristic impedance (4-100 MHz)	Ω	100 ± 5
Nom. velocity of propagation		0.78C
Phase delay @ 500 MHz	ns/100 m	<536
Delay skew (4-500 MHz)	ns/100 m	<30
Transfer Impedance @ 30 MHz	mΩ/m	< 30

LOW FREQUENCY AND DC ELECTRICAL PROPERTIES

Mutual Capacitance @ 1 KHz	nF/km	45
DC resistance	Ω/km	<144
Capacitance unbalance to ground	pF/km	<1500
Resistance unbalance	%	<2
Insulation resistance	MΩ.m	> 5000
Dielectric strength	kV d.c./1min	1
Operating voltage	Volts	60

Cat. 6_A U/FTP Patch Cables, 500 MHz 4x2x26 AWG

ENVIRONMENTAL AND OTHER PROPERTIES

Operating temperature range	°C	-20 to +60
Installation temperature range	°C	-5 to +50
Max installation tensile load	kg	4
Min installation bend radius		12*cable OD
Min long term bend radius		8*cable OD
Flame retardancy (all cables)		IEC 60332-1 UL-1581 VW-1
Halogen content (HFFR cables)		IEC 60754-2
Smoke emission (HFFR cables)		IEC 61034

MARKING

Cables are marked as follows

Teldor Cables SuperLan 6, Part Number, STP Patch 4x2x26 AWG 250 MHz, PVC, IEC 61156-6 Cat. 6, IEC 60332-1, RoHS, length in m

or per customer request.

ORDERING

Consult the standard cable Part Numbers Table. Standard packaging: 500 meters on a wooden drum. Other packaging options, constructions and materials may be available. Please contact the Teldor Cables Marketing Department.

Cable Part Numbers and Description

Part Number	Cable Geometry	No. of Pairs	Wire Gage	Weight kg/km	Dimension mm	Jacket Material	Standard Jacket RAL/color	Caloric Value MJoule/km
612385	Circular simplex	4	26 *	33	5.9	PVC	7032 Grey	440
612232	Circular simplex	4	26 *	34	5.9	HFFR	7032 Grey	350

Other jacket colors are available. Please specify.

Cat. 6_A S/FTP Horizontal Cables, 500 MHz 4x2x23 AWG and 2x(4x2x23 AWG)

COMPLIANCE WITH

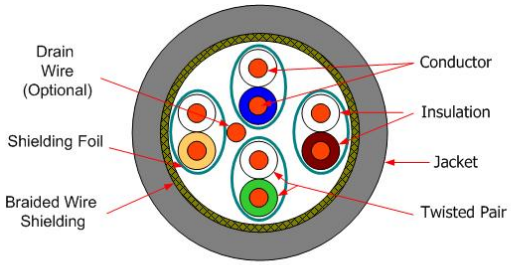
- ISO/IEC 11801 draft, Class E_A
- CENELEC EN 50173:2002
- ANSI/TIA/EIA-568-B.2
- IEC-60332-1
- UL 1581 VW-1
- IEEE 802.3an 10GBASE-T

CABLE STANDARDS

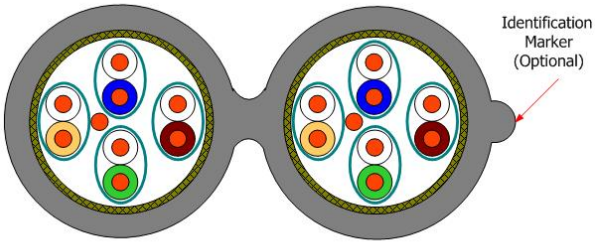
- IEC 61156-5 Cat. 6A NCD 5.2007
- EN 50288-5-1

CONSTRUCTION

Conductor:	23 AWG bare copper
Insulation:	Foam-Skin polyolefin. Nominal diameter over insulation 1.35 mm
Pairs:	Two wires twisted into pairs with different lays (lay direction left)
Pairs color code:	white-blue, white-orange, white-green and white-brown
Cabling:	4 twisted pairs cabled to form the cable core
Shielding:	Individual aluminum-polyester foil over each pair and overall braided wires shield over the cabled pairs: o Foil shielding: polyester aluminum tape, aluminum side facing outwards o Drain wire: optional 26 AWG tinned copper in the cable core center o Braided shielding: tinned copper wires
Outer jacket material:	PVC or HFFR (LS0H)
Fig 8 construction:	Two cables with a connecting web forming a detachable cable pair.



Simplex



"Fig 8" Duplex

TRANSMISSION PROPERTIES

Freq. MHz	Attenuation dB/100m	NEXT pp dB	ELFEXT pp dB/100m	Return Loss dB
	Max.	Min.	Min.	Min.
4	3.8	66	56	23.0
10	5.9	60	48	25.0
16	7.5	57	44	25.0
20	8.4	56	42	25.0
31.25	10.5	53	38	23.3
62.5	15.0	48	32	21.5
100	19.1	45	28	20.1
200	27.6	41	22	18.0
250	31.1	39	20	17.3
500	45.3	35	14	17.3

PSNEXT=pair to pair NEXT-3
PSELFEXT=pair to pair ELFEXT-3
ACR=pair to pair NEXT-Attenuation [dB/100m]
PSACR=pair to pair ACR-3 [dB/100m]

Cat. 6_A S/FTP Horizontal Cables, 500 MHz 4x2x23 AWG and 2x(4x2x23 AWG)

HIGH FREQUENCY ELECTRICAL PROPERTIES

Mean characteristic impedance (4-100 MHz)	Ω	100 ± 5
Nom. velocity of propagation		0.78C
Phase delay @ 500 MHz	ns/100 m	<536
Delay skew (4-500 MHz)	ns/100 m	<30
Transfer Impedance @ 30 MHz	mΩ/m	< 30

LOW FREQUENCY AND DC ELECTRICAL PROPERTIES

Mutual Capacitance @ 1 KHz	nF/km	45
DC resistance	Ω/km	<75
Capacitance unbalance to ground	pF/km	<1500
Resistance unbalance	%	<2
Insulation resistance	MΩ.m	> 5000
Dielectric strength	kV d.c./1min	1
Operating voltage	Volts	60

ENVIRONMENTAL AND OTHER PROPERTIES

Operating temperature range	°C	-20 to +60
Installation temperature range	°C	-5 to +50
Max installation tensile load	kg	8
Min installation bend radius		12*cable OD
Min long term bend radius		8*cable OD
Flame retardancy (all cables)		IEC 60332-1 UL-1581 VW-1
Halogen content (HFFR cables)		IEC 60754-2
Smoke emission (HFFR cables)		IEC 61034

MARKING

Cables are marked as follows

Teldor Cables SuperLan 6, Part Number, SSTP 4x2x23 AWG 500 MHz, PVC, IEC 61156-5 Cat. 6, IEC 60332-1, RoHS, length in m

or per customer request.

ORDERING

Consult the standard cable Part Numbers Table. Standard packaging: 500 meters on a wooden drum. Other packaging options, constructions and materials may be available. Please contact the Teldor Cables Marketing Department.

Cable Part Numbers and Description

Part Number	Cable Geometry	No. of Pairs	Wire Gage	Weight kg/km	Dimension mm	Jacket Material	Standard Jacket RAL/color	Caloric Value MJoule/km
612304	Circular simplex	4	23	59	7.5	PVC	7032 Grey	500
611707	Circular simplex	4	23	61	7.5	HFFR	7032 Grey	450
612307	Fig. 8 Duplex	8	23	121	7.7x16	PVC	7032 Grey	1000
612309	Fig. 8 Duplex	8	23	124	7.7x16	HFFR	7032 Grey	900

Other jacket colors are available. Please specify.

Cat. 6_A S/FTP Patch Cables, 500 MHz 4x2x26 AWG

COMPLIANCE WITH

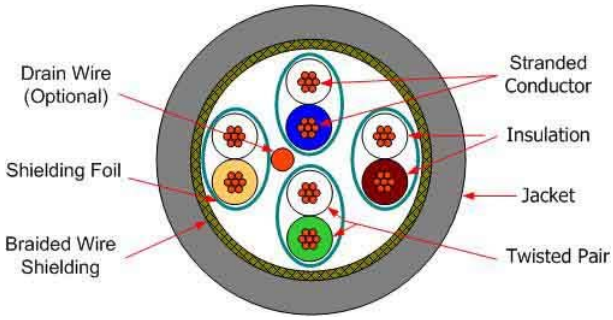
- ISO/IEC 11801 draft, Class E_A
- CENELEC EN 50173:2002
- ANSI/TIA/EIA-568-B.2
- IEC-60332-1
- UL 1581 VW-1
- IEEE 802.3an 10GBASE-T

CABLE STANDARDS

- IEC 61156-6 Cat. 6A
- EN 50288-5-2

CONSTRUCTION

Conductor:	Stranded 34 AWG bare copper wires forming a 26 AWG conductor
Insulation:	Foam-Skin polyolefin. Nominal diameter over insulation 1.0 mm
Pairs:	Two wires twisted into pairs with different lays (lay direction left)
Pairs color code:	white-blue, white-orange, white-green and white-brown
Cabling:	4 twisted pairs cabled to form the cable core
Shielding:	Individual foil over each pair and overall braided wires shield over the cabled pairs: o Foil shielding: polyester aluminum tape, aluminum side facing outwards o Drain wire: optional 26 AWG tinned copper (in the core center) o Braided shielding: tinned copper wires
Outer jacket material:	PVC or HFFR (LS0H)



TRANSMISSION PROPERTIES

Freq. MHz	Attenuation dB/100m	NEXT pp dB	ELFEXT pp dB/100m	Return Loss dB
	Max.	Min.	Min.	Min.
4	5.8	66	56	23.0
10	9.0	60	48	25.0
16	11.4	57	44	25.0
20	12.8	56	42	25.0
31.25	16.1	53	38	23.3
62.5	23.3	48	32	20.7
100	29.9	45	28	19.0
200	43.8	41	22	16.4
250	49.7	39	20	15.6
500	74.1	35	14	15.6

PSNEXT=pair to pair NEXT-3
PSELFEXT=pair to pair ELFEXT-3
ACR=pair to pair NEXT-Attenuation [dB/100m]
PSACR=pair to pair ACR-3 [dB/100m]

HIGH FREQUENCY ELECTRICAL PROPERTIES

Mean characteristic impedance (4-100 MHz)	Ω	100 ± 5
Nom. velocity of propagation		0.78C
Phase delay @ 500 MHz	ns/100 m	<536
Delay skew (4-500 MHz)	ns/100 m	<30
Transfer Impedance @ 30 MHz	mΩ/m	< 30

Cat. 6_A S/FTP Patch Cables, 500 MHz 4x2x26 AWG

LOW FREQUENCY AND DC ELECTRICAL PROPERTIES

Mutual Capacitance @ 1 KHz	nF/km	45
DC resistance	Ω/km	<144
Capacitance unbalance to ground	pF/km	<1500
Resistance unbalance	%	<2
Insulation resistance	MΩ.m	> 5000
Dielectric strength	kV d.c./1min	1
Operating voltage	Volts	60

ENVIRONMENTAL AND OTHER PROPERTIES

Operating temperature range	°C	-20 to +60
Installation temperature range	°C	-5 to +50
Max installation tensile load	kg	4
Min installation bend radius		12*cable OD
Min long term bend radius		8*cable OD
Flame retardancy (all cables)		IEC 60332-1 UL-1581 VW-1
Halogen content (HFFR cables)		IEC 60754-2
Smoke emission (HFFR cables)		IEC 61034

MARKING

Cables are marked as follows

Teldor Cables SuperLan 6, Part Number, SSTP Patch 4x2x26 AWG 250 MHz, HFFR, IEC 61156-6 Cat. 6, IEC 60332-1, RoHS, length in m

or per customer request.

ORDERING

Consult the standard cable Part Numbers Table. Standard packaging: 500 meters on a wooden drum. Other packaging options, constructions and materials may be available. Please contact the Teldor Cables Marketing Department.

Cable Part Numbers and Description

Part Number	Cable Geometry	No. of Pairs	Wire Gage	Weight kg/km	Dimension mm	Jacket Material	Standard Jacket RAL/color	Caloric Value MJoule/km
612301	Circular simplex	4	26	44	6.1	HFFR	7032 Grey	320
612298	Circular simplex	4	26	42	6.1	PVC	7032 Grey	380

Other jacket colors are available. Please specify.

Cat. 7 F/FTP Horizontal Cables, 600 MHz 4x2x23 AWG and 2x(4x2x23 AWG)

COMPLIANCE WITH

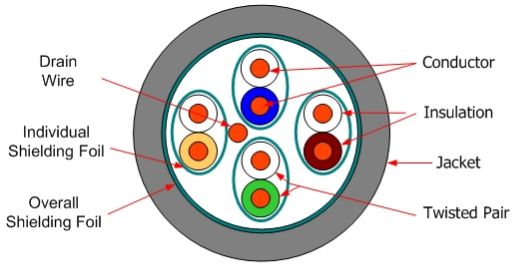
- ISO/IEC 11801:2002, Class F
- CENELEC EN 50173:2002
- IEC-60332-1
- UL 1581 VW-1

CABLE STANDARDS

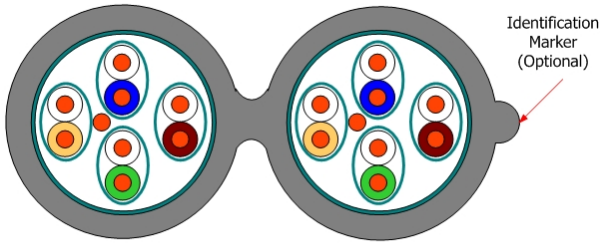
- IEC 61156-5 Cat. 7
- EN 50288-4-1

CONSTRUCTION

Conductor:	23 AWG bare copper
Insulation:	Foam-Skin polyolefin. Nominal diameter over insulation 1.35 mm
Pairs:	Two wires twisted into pairs with different lays (lay direction left)
Pairs color code:	white-blue, white-orange, white-green and white-brown
Cabling:	4 twisted pairs cabled to form the cable core
Shielding:	Individual aluminum-polyester foil over each pair and overall foil shielding o Individual foil shielding: polyester aluminum tape, aluminum side facing outwards o Drain wire: 26 AWG tinned copper in the cable core center o Overall foil shielding: polyester aluminum tape, aluminum side facing inwards
Outer jacket material:	HFFR (LS0H)
Fig 8 construction:	Two cables with a connecting web forming a detachable cable pair.



Simplex



"Fig 8" Duplex

TRANSMISSION PROPERTIES

Freq. MHz	Attenuation dB/100m	NEXT pp dB	ELFEXT pp dB/100m	Return Loss dB
	Max.	Min.	Min.	Min.
4	3.7	78	78	23.0
10	5.9	78	74	25.0
16	7.4	78	70	25.0
20	8.3	78	68	25.0
31.25	10.4	78	64	23.6
62.5	14.9	75	58	21.5
100	19.0	72	54	20.1
300	34.2	65	44	17.3
600	50.1	61	38	17.3

PSNEXT=pair to pair NEXT-3
PSELFEXT=pair to pair ELFEXT-3
ACR=pair to pair NEXT-Attenuation [dB/100m]
PSACR=pair to pair ACR-3 [dB/100m]

Cat. 7 F/FTP Horizontal Cables, 600 MHz 4x2x23 AWG and 2x(4x2x23 AWG)

HIGH FREQUENCY ELECTRICAL PROPERTIES

Mean characteristic impedance (4-100 MHz)	Ω	100 ± 5
Nom. velocity of propagation		0.78C
Phase delay @ 600 MHz	ns/100 m	<536
Delay skew (4-600 MHz)	ns/100 m	<25
Transfer Impedance @ 30 MHz	mΩ/m	< 30

LOW FREQUENCY AND DC ELECTRICAL PROPERTIES

Mutual Capacitance @ 1 KHz	nF/km	45
DC resistance	Ω/km	<75
Capacitance unbalance to ground	pF/km	<1500
Resistance unbalance	%	<2
Insulation resistance	MΩ.m	> 5000
Dielectric strength	kV d.c./1min	1
Operating voltage	Volts	60

ENVIRONMENTAL AND OTHER PROPERTIES

Operating temperature range	°C	-20 to +60
Installation temperature range	°C	-5 to +50
Max installation tensile load	kg	8
Min installation bend radius		12*cable OD
Min long term bend radius		8*cable OD
Flame retardancy (all cables)		IEC 60332-1 UL-1581 VW-1
Halogen content (HFFR cables)		IEC 60754-2
Smoke emission (HFFR cables)		IEC 61034

MARKING

Cables are marked as follows

Teldor Cables SuperLan 7, Part Number, FSTP 4x2x23 AWG 600 MHz, HFFR, IEC 61156-5 Cat. 7, IEC 60332-1, RoHS, length in m

or per customer request.

ORDERING

Consult the standard cable Part Numbers Table. Standard packaging: 500 meters on a wooden drum. Other packaging options, constructions and materials may be available. Please contact the Teldor Cables Marketing Department.

Cable Part Numbers and Description

Part Number	Cable Geometry	No. of Pairs	Wire Gage	Weight kg/km	Dimension mm	Jacket Material	Standard Jacket RAL/color	Caloric Value MJoule/km
612608	Circular simplex	4	23	57	7.5	HFFR	3000 Red	500
6126080	Fig. “8” duplex	8	23	117	7.5x15.5	HFFR	3000 Red	900

Other jacket colors are available. Please specify.

Cat. 7 S/FTP Horizontal Drop Cables, 600 MHz 4x2x23 AWG

COMPLIANCE WITH

- ISO/IEC 11801:2002, Class F
- CENELEC EN 50173:2002
- IEC-60332-1
- UL 1581 VW-1

CABLE STANDARDS

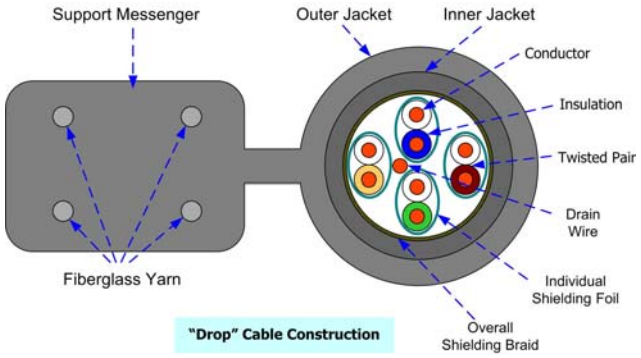
- IEC 61156-5 Cat. 7
- EN 50288-4-1

CONSTRUCTION

Conductor:	23 AWG bare copper
Insulation:	Foam-Skin polyolefin. Nominal diameter over insulation 1.41 mm
Pairs:	Two wires twisted into pairs with different lays (lay direction left)
Pairs color code:	white-blue, white-orange, white-green and white-brown
Cabling:	4 twisted pairs cabled to form the cable core
Shielding:	Individual aluminum-polyester foil over each pair. Aluminum facing outwards. Optional 26 AWG drain wire in the cable core center Braided overall shielding: tinned copper wires.
Outer jacket material:	PVC or HFFR (LS0H)
Dielectric Self-Supporting "Drop" construction	A square fiberglass reinforced self-supporting messenger element made of PVC or PE to allow the cable to be used in Drops (see drawing).

DROP CABLES

Drop cables are designed for a maximum span of 60 m. The recommended maximum installation tension is 300 N. The maximum span may have to be reduced if the cable is subjected to extremely harsh environmental conditions such as strong winds and excessive ice build-up. Calculating the maximum span under such extreme weather conditions should take into account that the clamped drop cable can withstand no more than 1200 N tensile load.
For more information please contact Teldor Cables.



"Drop" Cable Construction

CLAMPS

Special clamps are available to properly clamp and support the Drop cable. See clamp drawing. The clamps are available from Teldor Cables under Teldor Cables part number 490007-D.

TRANSMISSION PROPERTIES

Freq. MHz	Attenuation dB/100m	NEXT pp dB	ELFEXT pp dB/100m	Return Loss dB
	Max.	Min.	Min.	Min.
4	3.7	78	78	23.0
10	5.9	78	74	25.0
16	7.4	78	70	25.0
20	8.3	78	68	25.0
31.25	10.4	78	64	23.6
62.5	14.9	75	58	21.5
100	19.0	72	54	20.1
300	34.2	65	44	17.3
600	50.1	61	38	17.3

PSNEXT=pair to pair NEXT-3
PSELFEXT=pair to pair ELFEXT-3
ACR=pair to pair NEXT-Attenuation [dB/100m]
PSACR=pair to pair ACR-3 [dB/100m]

Cat. 7 S/FTP Horizontal Drop Cables, 600 MHz 4x2x23 AWG

HIGH FREQUENCY ELECTRICAL PROPERTIES

Mean characteristic impedance (4-100 MHz)	Ω	100 ± 5
Nom. velocity of propagation		0.78C
Phase delay @ 600 MHz	ns/100 m	<536
Delay skew (4-600 MHz)	ns/100 m	<25
Transfer Impedance @ 30 MHz	mΩ/m	< 30

LOW FREQUENCY AND DC ELECTRICAL PROPERTIES

Mutual Capacitance @ 1 KHz	nF/km	45
DC resistance	Ω/km	<75
Capacitance unbalance to ground	pF/km	<1500
Resistance unbalance	%	<2
Insulation resistance	MΩ.m	> 5000
Dielectric strength	kV d.c./1min	1
Operating voltage	Volts	60

ENVIRONMENTAL AND OTHER PROPERTIES

Operating temperature range	°C	-20 to +60
Installation temperature range	°C	-5 to +50
Max installation tensile load	kg	8
Max operating load	kg	120
Min installation bend radius		12*cable OD
Min long term bend radius		8*cable OD
Flame retardancy (*)		IEC 60332-1 UL-1581 VW-1
Halogen content (HFFR cables)		IEC 60754-2
Smoke emission (HFFR cables)		IEC 61034
Max installation length	m	80
Max Suspension Span	m	60

(*) PE-over-jacketed Drop cables meet the flammability tests only after removal of the outer jacket and messenger wire.

MARKING

Cables are marked as follows

Teldor Cables SuperLan 7, Part Number, SSTP 4x2x23 AWG 600 MHz, PVC, IEC 61156-5 Cat. 7, IEC 60332-1, RoHS, length in m

or per customer request.

ORDERING

Consult the standard cable Part Numbers Table. Standard packaging: 500 meters on a wooden drum. Other packaging options, constructions and materials may be available. Please contact the Teldor Cables Marketing Department.

Cable Part Numbers and Description

Part Number	Cable Geometry	No. of Pairs	Wire Gage	Weight kg/km	Dimension mm	Jacket Material	Standard Jacket RAL/color	Caloric Value MJoule/km
612789	Outdoor Drop (*)	4	24	180	10.7x19.5	PVC	9005 Black	3100

(*) Outdoor data cables should not be immersed in water or exposed to excessive humidity.

Cat. 7_A S/FTP Horizontal Cables, 1000 MHz 4x2x23 AWG and 2x(4x2x23 AWG)

COMPLIANCE WITH

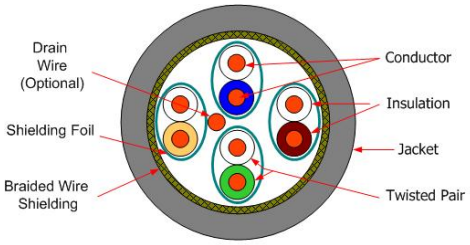
- ISO/IEC 11801 draft, Class F_A
- CENELEC EN 50173:2002
- IEC-60332-1
- UL 1581 VW-1
- IEEE 802.3an 10GBASE-T

CABLE STANDARDS

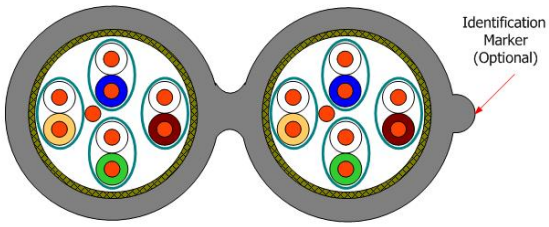
- IEC 61156-5 Cat. 7A NCD 5.2007
- EN 50288-4-1

CONSTRUCTION

Conductor:	23 AWG bare copper
Insulation:	Foam-Skin polyolefin. Nominal diameter over insulation 1.41 mm
Pairs:	Two wires twisted into pairs with different lays (lay direction left)
Pairs color code:	white-blue, white-orange, white-green and white-brown
Cabling:	4 twisted pairs cabled to form the cable core
Shielding:	Individual aluminum-polyester foil over each pair and overall braided wires shield over the cabled pairs: o Foil shielding: polyester aluminum tape, aluminum side facing outwards o Drain wire: optional 26 AWG tinned copper in the cable core center o Braided shielding: tinned copper wires
Outer jacket material:	PVC or HFFR (LS0H)
Fig 8 construction:	Two cables with a connecting web forming a detachable cable pair.



Simplex



"Fig 8" Duplex

TRANSMISSION PROPERTIES

Freq. MHz	Attenuation dB/100m	NEXT pp dB	ELFEXT pp dB/100m	Return Loss dB
	Max.	Min.	Min.	Min.
4	3.7	78	78	23.0
10	5.8	78	74	25.0
16	7.3	78	70	25.0
20	8.2	78	68	25.0
31.25	10.3	78	64	23.6
62.5	14.6	75	58	21.5
100	18.5	72	54	20.1
300	32.7	65	44	17.3
600	47.1	61	38	17.3
1000	61.9	57	34	17.3

PSNEXT=pair to pair NEXT-3
PSELFEXT=pair to pair ELFEXT-3
ACR=pair to pair NEXT-Attenuation [dB/100m]
PSACR=pair to pair ACR-3 [dB/100m]

Cat. 7_A S/FTP Horizontal Cables, 1000 MHz 4x2x23 AWG and 2x(4x2x23 AWG)

HIGH FREQUENCY ELECTRICAL PROPERTIES

Mean characteristic impedance (4-100 MHz)	Ω	100 ± 5
Nom. velocity of propagation		0.78C
Phase delay @ 1000 MHz	ns/100 m	<536
Delay skew (4-1000 MHz)	ns/100 m	<25
Transfer Impedance @ 30 MHz	mΩ/m	< 30

LOW FREQUENCY AND DC ELECTRICAL PROPERTIES

Mutual Capacitance @ 1 KHz	nF/km	45
DC resistance	Ω/km	<75
Capacitance unbalance to ground	pF/km	<1500
Resistance unbalance	%	<2
Insulation resistance	MΩ.m	> 5000
Dielectric strength	kV d.c./1min	1
Operating voltage	Volts	60

ENVIRONMENTAL AND OTHER PROPERTIES

Operating temperature range	°C	-20 to +60
Installation temperature range	°C	-5 to +50
Max installation tensile load	kg	8
Min installation bend radius		12*cable OD
Min long term bend radius		8*cable OD
Flame retardancy (all cables)		IEC 60332-1 UL-1581 VW-1
Halogen content (HFFR cables)		IEC 60754-2
Smoke emission (HFFR cables)		IEC 61034

MARKING

Cables are marked as follows

Teldor Cables SuperLan 7, Part Number, SSTP 4x2x23 AWG 1000 MHz, PVC, IEC 61156-5 Cat. 7, IEC 60332-1, RoHS, length in m

or per customer request.

ORDERING

Consult the standard cable Part Numbers Table. Standard packaging: 500 meters on a wooden drum. Other packaging options, constructions and materials may be available. Please contact the Teldor Cables Marketing Department.

Cable Part Numbers and Description

Part Number	Cable Geometry	No. of Pairs	Wire Gage	Weight kg/km	Dimension mm	Jacket Material	Standard Jacket RAL/color	Caloric Value MJoule/km
605280	Circular simplex	4	23	61	7.5	PVC	3000 Red	500
611592	Circular simplex	4	23	61	7.5	HFFR	3000 Red	450
611138	Fig. “8” duplex	8	23	133	7.7x16.0	PVC	3000 Red	1000
611713	Fig. “8” duplex	8	23	124	7.7x16.0	HFFR	3000 Red	900
611231	Circular Outdoor (*)	4	23	143	11.1	PVC	9005 Black	1000
612780	Circular Outdoor Self-Support (*)	4	23	145	8.2x15.7	PVC	9005 Black	1500

(*) Outdoor data cables should not be immersed in water or exposed to excessive humidity.

Other jacket colors are available. Please specify.

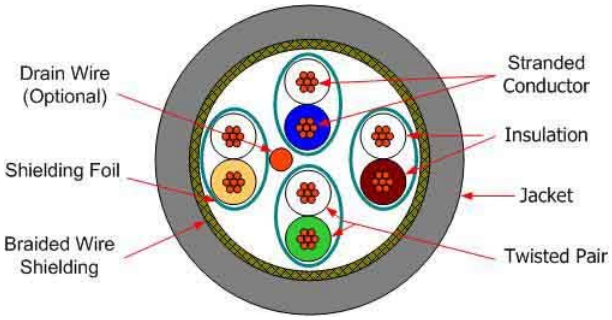
Cat. 7_A S/FTP Patch Cables, 1000 MHz 4x2x26 AWG

COMPLIANCE WITH

- ISO/IEC 11801 draft, Class F_A
- CENELEC EN 50173:2002
- IEC-60332-1
- UL 1581 VW-1
- IEEE 802.3an 10GBASE-T

CABLE STANDARDS

- IEC 61156-6 Cat. 7A
- EN 50288-4-2



CONSTRUCTION

Conductor:	Stranded 34 AWG bare copper wires forming a 26 AWG conductor
Insulation:	Foam-Skin polyolefin. Nominal diameter over insulation 1.0 mm
Pairs:	Two wires twisted into pairs with different lays (lay direction left)
Pairs color code:	white-blue, white-orange, white-green and white-brown
Cabling:	4 twisted pairs cabled to form the cable core
Shielding:	Individual foil over each pair and overall braided wires shield over the cabled pairs: o Foil shielding: polyester aluminum tape, aluminum side facing outwards o Drain wire: optional 26 AWG tinned copper (in the core center) o Braided shielding: tinned copper wires
Outer jacket material:	PVC or HFFR (LS0H)

TRANSMISSION PROPERTIES

Freq. MHz	Attenuation dB/100m	NEXT pp dB	ELFEXT pp dB/100m	Return Loss dB
	Max.	Min.	Min.	Min.
4	5.6	78	78	23.0
10	8.8	78	74	25.0
16	11.1	78	70	25.0
20	12.4	78	68	25.0
31.25	15.6	78	64	23.3
62.5	22.3	75	58	20.7
100	28.5	72	54	19.0
300	51.3	65	44	15.6
600	75.1	61	38	15.6
1000	100.4	57	34	15.6

PSNEXT=pair to pair NEXT-3
PSELFEXT=pair to pair ELFEXT-3
ACR=pair to pair NEXT-Attenuation [dB/100m]
PSACR=pair to pair ACR-3 [dB/100m]

HIGH FREQUENCY ELECTRICAL PROPERTIES

Mean characteristic impedance (4-100 MHz)	Ω	100 ± 5
Nom. velocity of propagation		0.78C
Phase delay @ 1000 MHz	ns/100 m	<536
Delay skew (4-1000 MHz)	ns/100 m	<25
Transfer Impedance @ 30 MHz	mΩ/m	< 30

Cat. 7_A S/FTP Patch Cables, 1000 MHz 4x2x26 AWG

LOW FREQUENCY AND DC ELECTRICAL PROPERTIES

Mutual Capacitance @ 1 KHz	nF/km	45
DC resistance	Ω/km	<144
Capacitance unbalance to ground	pF/km	<1500
Resistance unbalance	%	<2
Insulation resistance	MΩ.m	> 5000
Dielectric strength	kV d.c./1min	1
Operating voltage	Volts	60

ENVIRONMENTAL AND OTHER PROPERTIES

Operating temperature range	°C	-20 to +60
Installation temperature range	°C	-5 to +50
Max installation tensile load	kg	4
Min installation bend radius		12*cable OD
Min long term bend radius		8*cable OD
Flame retardancy (all cables)		IEC 60332-1 UL-1581 VW-1
Halogen content (HFFR cables)		IEC 60754-2
Smoke emission (HFFR cables)		IEC 61034

MARKING

Cables are marked as follows

Teldor Cables SuperLan 7, Part Number, SSTP Patch 4x2x26 AWG 1000 MHz, HFFR, IEC 61156-6 Cat. 7, IEC 60332-1, RoHS, length in m

or per customer request.

ORDERING

Consult the standard cable Part Numbers Table. Standard packaging: 500 meters on a wooden drum. Other packaging options, constructions and materials may be available. Please contact the Teldor Cables Marketing Department.

Cable Part Numbers and Description

Part Number	Cable Geometry	No. of Pairs	Wire Gage	Weight kg/km	Dimension mm	Jacket Material	Standard Jacket RAL/color	Caloric Value MJoule/km
611514	Circular simplex	4	26	43	6.1	PVC	7032 Grey	380
611172	Circular simplex	4	26	44	6.1	HFFR	7032 Grey	310

Other jacket colors are available. Please specify.

"Cat. 8" S/FTP Horizontal Cables, 1200 MHz 4x2x22 AWG

COMPLIANCE WITH

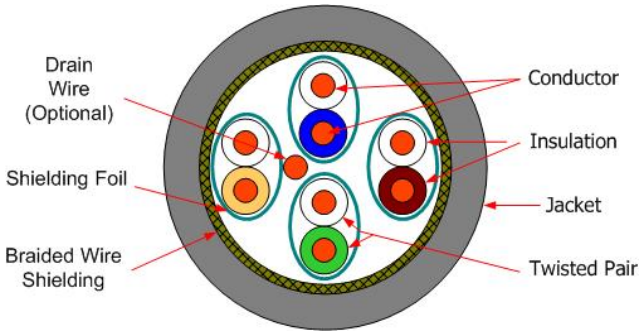
- IEC-60332-1
- UL 1581 VW-1

CABLE STANDARDS

- IEC 61156-7 "Cat. 8"

CONSTRUCTION

Conductor:	22 AWG bare copper
Insulation:	Foam-Skin polyolefin. Nominal diameter over insulation 1.55 mm
Pairs:	Two wires twisted into pairs with different lays (lay direction left)
Pairs color code:	white-blue, white-orange, white-green and white-brown
Cabling:	4 twisted pairs cabled to form the cable core
Shielding:	Individual aluminum-polyester foil over each pair and overall braided wires shield over the cabled pairs: o Foil shielding: polyester aluminum tape, aluminum side facing outwards o Drain wire: optional 26 AWG tinned copper (between foil and braiding) o Braided shielding: tinned copper wires
Outer jacket material:	PVC or HFFR (LS0H)



TRANSMISSION PROPERTIES

Freq. MHz	Attenuation dB/100m	NEXT pp dB	ELFEXT pp dB/100m	Return Loss dB
	Max.	Min.	Min.	Min.
4	3.4	75	78	23.0
10	5.4	75	74	25.0
16	6.8	75	70	25.0
20	7.6	75	68	25.0
31.25	9.6	75	64	23.3
62.5	13.7	75	58	20.7
100	17.5	73	54	19.0
300	31.5	66	44	15.6
600	46.3	61	38	15.6
1200	69	57	32	14.3

PSNEXT=pair to pair NEXT-3
PSELFEXT=pair to pair ELFEXT-3
ACR=pair to pair NEXT-Attenuation [dB/100m]
PSACR=pair to pair ACR-3 [dB/100m]

"Cat. 8" S/FTP Horizontal Cables, 1200 MHz 4x2x22 AWG

HIGH FREQUENCY ELECTRICAL PROPERTIES

Input Impedance 4-100 MHz 100-300 MHz 300-1200 MHz	Ω	100 ±15 100 ±22 100 ±25
Nom. velocity of propagation		0.79C
Propagation delay @1200 MHz	ns/50 m	<250
Delay skew	ns/50 m	<22.5
Transfer Impedance @ 30 MHz	mΩ/m	< 30

LOW FREQUENCY AND DC ELECTRICAL PROPERTIES

Mutual Capacitance @ 1 KHz	nF/km	45
DC resistance	Ω/km	<59
Capacitance unbalance to ground	pF/km	<1200
Resistance unbalance	%	<2
Insulation resistance	MΩ.m	> 5000
Dielectric strength	kV d.c./1min	1
Operating voltage	Volts	60

ENVIRONMENTAL AND OTHER PROPERTIES

Operating temperature range	°C	-20 to +60
Installation temperature range	°C	-5 to +50
Max installation tensile load	kg	8
Min installation bend radius		12*cable OD
Min long term bend radius		8*cable OD
Flame retardancy (all cables)		IEC 60332-1 UL-1581 VW-1
Halogen content (HFFR cables)		IEC 60754-2
Smoke emission (HFFR cables)		IEC 61034

MARKING

Cables are marked as follows

Teldor Cables SuperLan 8, Part Number, SSTP 4x2x22 AWG 1200 MHz, PVC, IEC 61156-7 Cat. 8, IEC 60332-1, RoHS, length in m

or per customer request.

ORDERING

Consult the standard cable Part Numbers Table. Standard packaging: 500 meters on a wooden drum. Other packaging options, constructions and materials may be available. Please contact the Teldor Cables Marketing Department.

Cable Part Numbers and Description

Part Number	Cable Geometry	No. of Pairs	Wire Gage	Weight kg/km	Dimension mm	Jacket Material	Standard Jacket RAL/color	Caloric Value MJoule/km
612290	Circular simplex	4	22	84	8.4	PVC	7032 Grey	500
612288	Circular simplex	4	22	86	8.4	HFFR	7032 Grey	450
612781	Circular Outdoor Self-Support (*)	4	22	150	9.3x17	PVC	9005 Black	1500

(*) Outdoor data cables should not be immersed in water or exposed to excessive humidity.

Other jacket colors are available. Please specify.

"Cat. 8" S/FTP Horizontal Cables, 1500 MHz 4x2x22 AWG

COMPLIANCE WITH

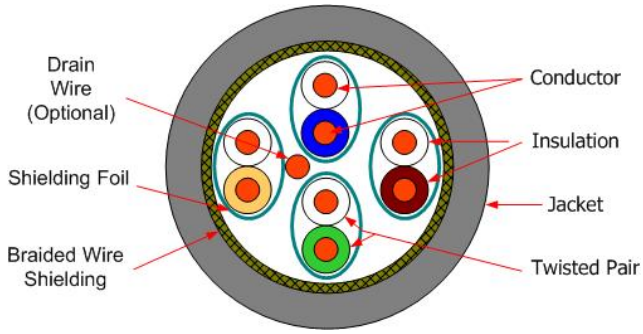
- IEC-60332-1
- UL 1581 VW-1

CABLE STANDARDS

- IEC 61156-7 "Cat. 8"

CONSTRUCTION

Conductor:	22 AWG bare copper
Insulation:	Foam-Skin polyolefin. Nominal diameter over insulation 1.55 mm
Pairs:	Two wires twisted into pairs with different lays (lay direction left)
Pairs color code:	white-blue, white-orange, white-green and white-brown
Cabling:	4 twisted pairs cabled to form the cable core
Shielding:	Individual aluminum-polyester foil over each pair and overall braided wires shield over the cabled pairs: o Foil shielding: polyester aluminum tape, aluminum side facing outwards o Drain wire: optional 26 AWG tinned copper (between foil and braiding) o Braided shielding: tinned copper wires
Outer jacket material:	PVC or HFFR (LS0H)



TRANSMISSION PROPERTIES

Freq. MHz	Attenuation dB/100m	NEXT pp dB	ELFEXT pp dB/100m	Return Loss dB
	Max.	Min.	Min.	Min.
4	3.4	75	78	23.0
10	5.4	75	74	25.0
16	6.8	75	70	25.0
20	7.6	75	68	25.0
31.25	9.6	75	64	23.3
62.5	13.7	75	58	20.7
100	17.5	73	54	19.0
300	31.5	66	44	15.6
600	46.3	61	38	15.6
1200	69.0	57	32	14.3
1500	(*) 77.0	(*) 57	(*) 18	(*) 14.3

pp – pair to pair
PSNEXT=pair to pair NEXT-3
PSELFEXT=pair to pair ELFEXT-3
ACR=pair to pair NEXT-Attenuation [dB/100m]
PSACR=pair to pair ACR-3 [dB/100m]
(*) – typical value

"Cat. 8" S/FTP Horizontal Cables, 1500 MHz 4x2x22 AWG

HIGH FREQUENCY ELECTRICAL PROPERTIES

Input Impedance 4-100 MHz 100-300 MHz 300-1200 MHz	Ω	100 ±15 100 ±22 100 ±25
Nom. velocity of propagation		0.79C
Propagation delay @1200 MHz	ns/50 m	<250
Delay skew	ns/50 m	<22.5
Transfer Impedance @ 30 MHz	mΩ/m	< 30

LOW FREQUENCY AND DC ELECTRICAL PROPERTIES

Mutual Capacitance @ 1 KHz	nF/km	45
DC resistance	Ω/km	<59
Capacitance unbalance to ground	pF/km	<1200
Resistance unbalance	%	<2
Insulation resistance	MΩ.m	> 5000
Dielectric strength	kV d.c./1min	1
Operating voltage	Volts	60

ENVIRONMENTAL AND OTHER PROPERTIES

Operating temperature range	°C	-20 to +60
Installation temperature range	°C	-5 to +50
Max installation tensile load	kg	8
Min installation bend radius		12*cable OD
Min long term bend radius		8*cable OD
Flame retardancy (all cables)		IEC 60332-1 UL-1581 VW-1
Halogen content (HFFR cables)		IEC 60754-2
Smoke emission (HFFR cables)		IEC 61034

MARKING

Cables are marked as follows

Teldor Cables SuperLan 8, Part Number, SSTP 4x2x22 AWG 1500 MHz, PVC, IEC 61156-7 Cat. 8, IEC 60332-1, RoHS, length in m

or per customer request.

ORDERING

Consult the standard cable Part Numbers Table. Standard packaging: 500 meters on a wooden drum. Other packaging options, constructions and materials may be available. Please contact the Teldor Cables Marketing Department.

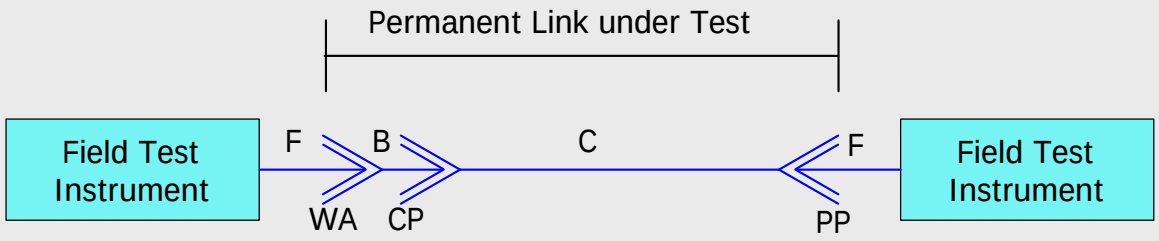
Cable Part Numbers and Description

Part Number	Cable Geometry	No. of Pairs	Wire Gage	Weight kg/km	Dimension mm	Jacket Material	Standard Jacket RAL/color	Caloric Value MJoule/km
612666	Circular simplex	4	22	84	8.4	PVC	7032 Grey	500
612667	Circular simplex	4	22	86	8.4	HFFR	7032 Grey	450

Other jacket colors are available. Please specify.

Permanent Link and Channel Test Definitions Per ISO/IEC 11801

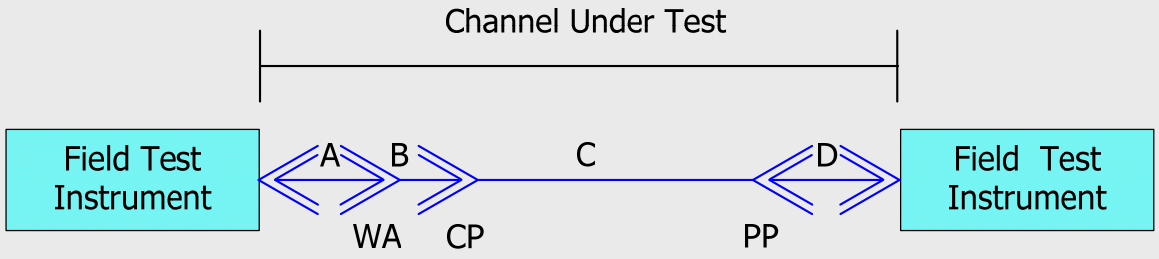
Permanent Link Test



Cables and Cords		Connecting Hardware	
Test equipment cord	F	Telecommunication outlet/connector	WA
Optional horizontal transition cable	B	Optional consolidation point	CP
Horizontal cabling	C	Patch panel outlet/connector	PP

Maximum permanent link length (B+C) – 90 m

Channel Test



Cables and Cords		Connecting Hardware	
Work area (patch) cable	F	Telecommunication outlet/connector	WA
Optional horizontal transition cable	B	Optional consolidation point	CP
Horizontal cabling	C	Patch panel outlet/connector	PP
Patch cable	D		

Maximum channel length (A+B+C+D) – 100 m
Maximum patch cable length – 5 m