



CAVI TRASMISSIONI DATI
LAN CABLES

UTP CAT 5e – UTP CAT 5e LSZH

UTP CAT 5e – UTP CAT 5e LSZH



COSTRUZIONE / CONSTRUCTION

Conduttore / Conductor	24 AWG CU rosso / 24 AWG bare copper	
Isolamento / Insulation	HDPE 0.88±0.1 mm	
Guaina / Outer Sheath	PVC grigio / grey RAL7001 Diam. 5.0±0.1 mm	LSZH grigio / grey RAL7001 Diam. 5.0± 0.1 mm
Marchatura / Printing	ECS-UTP CAT.5e 4X2X24AWG ROHS EIA/TIA 568 ISO/IEC 11801 CEI- UNEL 36762 C-4(Uo=400V) WW/YY [ORDER NR] --001MT - Eca	ECS-UTP CAT.5e 4x2x24AWG LSZH EIA/TIA 568 ISO/IEC 11801 CEI- UNEL 36762 C-4(Uo=400V) WW/YY [ORDER NR]-001MT - Eca

PROPRIETÀ ELETTRICHE / ELECTRICAL PROPERTIES

Resistenza conduttore / Conductor Resistance	<93.8 Ω/Km a / at 20°C
Resistenza d'anello cc / CC Ring Resistance	<16.8 Ω/100 m
Capacità mutua / Mutual Capacitance	<56 pF/m
Impedenza / Standard impedance	100±15 Ω tra / between 1 Mhz –100Mhz
Raggio Min curvatura / Min. Bending Radius	50 mm
Temperatura di esercizio / Operating Temperature	-20°C +60°C

NORMATIVE / RULES

ISO/IEC 11801-2Ed
ANSI TIA/ EIA 568-B.2
EN 50173
EN-50288-3-1
UL
EN 50575: 2014/A1:16

APPLICAZIONI / APPLICATIONS

10/100BASE(TIEEE 802.3)
ATM,TP-PMD,ANSIX 39T,5(TP),LSDN,TP-DDI
ETHERNET, 1000 BASE-T
GIGABIT ETHERNET
TOKEN RING (IEEE802.5)

Frequency(MHz)	RL(dB)	ATT(dB /100)	NEXT(dB)	PS.NEXT(dB)	ELFEXT(dB)	PS.ELFEXT(dB)
1	20	2.1	68.0	66.0	63.8	60.8
4	23.0	4.2	59.2	57.2	51.7	48.8
8	24.5	5.9	54.8	52.8	45.7	42.7
10	25	6.6	53.3	51.3	43.8	40.8
16	25	8.3	50.3	48.3	39.7	36.7
20	25	9.4	48.8	46.8	37.8	34.8
25	24.3	10.3	47.3	45.3	35.8	32.8
31.25	23.6	11.8	45.9	43.9	33.9	30.9
62.3	21.5	17.1	41.1	39.4	27.8	24.8
100	20.1	22.2	38.3	36.3	23.8	20.8
155	18.8	28.2	35.4	33.4	20	17
200	18	32.5	33.7	31.7	17.7	14.7

CODICE / ITEM NR	SEZIONE / SECTION	DIAM. / EXT. DIAM. mm	Kg/Km
LUPVR54A24UXGRS03	4x2xAWG24	5,0±0,1	31
LUHFR54A24UXGRS03	4x2xAWG24 LSZH	5,0±0,1	31

I dati riportati sono da considerarsi indicativi e non strettamente vincolanti / The details expressed above have to be considered as an indication.
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UTP CAT 5e DOPPIA GUAINA PVC

UTP CAT 5e DOUBLE PVC JACKET



COSTRUZIONE / CONSTRUCTION

Conduttore / Conductor	24 AWG CU rosso / 24 AWG bare copper
Isolamento / Insulation	HDPE 0.91±0.1 mm
Prima Guaina / First Sheath	PVC grigio / grey 5.0±0.1 mm
Seconda Guaina / Second Sheath	PVC blu / blue RoHs Diam. 6.2±0.2 mm
Marcatura / Printing	ECS-UTP CAT.5e-DG-PVC 4x2x24AWG- EIA/TIA 568 ISO/IEC 11801 CEI-UNEL 36762 C-4(Uo=400V) WW/YY [ORDER NR] --0001MT Eca

PROPRIETÀ ELETTRICHE/ELECTRICAL PROPERTIES

Resistenza conduttore / Conductor Resistance	<93.8 Ω/Km a / at 20°C
Resistenza d'anello cc / CC Ring Resistance	<16.8 Ω/100 m
Capacità mutua / Mutual Capacitance	<56 pF/m
Impedenza / Standard impedance	100±15 Ω tra / between 1 Mhz -100Mhz
Raggio Min curvatura / Min. Bending Radius	50 mm
Temperatura di esercizio / Operating Temperature	-20°C +60°C

NORMATIVE / RULES

ISO/IEC 11801-2Ed	10/100BASE (TIEEE 802.3)
ANSI TIA/EIA 568-B.2	ATM,TP-PMD,ANSIX 39T,5(TP),LSDN,TP-DDI
EN 50173	ETHERNET, 1000BASE-T
EN 50288-3-1	GIGABIT-ETHERNET
UL	TOKEN RING (IEEE 802.5)
EN 50575: 2014/A1:16	

APPLICAZIONI / APPLICATIONS

Frequency(MHz)	RL(dB)	ATT(dB /100)	NEXT(dB)	PS.NEXT(dB)	ELFEXT(dB)	PS.ELFEXT(dB)
1	20.00	2.10	68.00	66.00	63.80	60.80
4	23.00	4.20	59.20	57.20	51.70	48.80
8	24.50	5.90	54.80	52.80	45.70	42.70
10	25.00	6.60	53.30	51.30	43.80	40.80
16	25.00	8.30	50.30	48.30	39.70	36.70
20	25.00	9.40	48.80	46.80	37.80	34.80
25	24.30	10.30	47.30	45.30	35.80	32.80
31.25	23.60	11.80	45.90	43.90	33.90	30.90
62.3	21.50	17.10	41.10	39.40	27.80	24.80
100	20.10	22.20	38.30	36.30	23.80	20.80

CODICE / ITEM NR	SEZIONE / SECTION	DIAM. / EXT. DIAM. mm	Kg/Km
LUDPR54A24UXBLB05	4x2xAWG24	6,2±0,2	40



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UTP CAT 5e DOPPIA GUAINA PE

UTP CAT 5e DOUBLE PE JACKET



COSTRUZIONE / CONSTRUCTION

Conduttore / Conductor	24 AWG CU rosso / 24 AWG bare copper
Isolamento / Insulation	HDPE 0.91±0.1 mm
Prima Guaina / First Sheath	PVC 5.0±0.1 mm
Seconda Guaina / Second Sheath	LDPE nero / black Diam. 6.2±0.2 mm
Marcatura / Printing	ECS-UTP CAT.5e-DG-PE 4x2x24AWG- EIA/TIA 568 ISO/IEC 11801 CEI-UNEL 36762 C-4(U ₀ =400V) WW/YY [ORDER NR] --0001MT

PROPRIETÀ ELETTRICHE / ELECTRICAL PROPERTIES

Resistenza conduttore / Conductor Resistance	<93.8 Ω/Km a / at 20°C
Resistenza d'anello cc / CC Ring Resistance	<16.8 Ω/100 m
Capacità mutua / Mutual Capacitance	<56 pF/m
Impedenza / Standard impedance	100±15 Ω tra / between 1 Mhz -100Mhz
Raggio Min curvatura / Min. Bending Radius	50 mm
Temperatura di esercizio / Operating Temperature	-20°C +60°C

NORMATIVE / RULES

ISO/IEC 11801-2Ed
ANSI TIA/EIA 568-B.2
EN 50173
EN 50288-3-1
UL

APPLICAZIONI / APPLICATIONS

10/100BASE (TIEEE 802.3)
ATM, TP-PMD,ANSIX 39T,5(TP),LSDN, TP-DDI
ETHERNET, 1000BASE-T
GIGABIT-ETHERNET
TOKEN RING (IEEE 802.5)

Frequency(MHz)	RL(dB)	ATT(dB /100)	NEXT(dB)	PS.NEXT(dB)	ELFEXT(dB)	PS.ELFEXT(dB)
1	20.00	2.00	68.00	66.00	63.80	60.80
4	23.00	4.10	59.20	57.20	51.70	48.80
10	25.00	6.50	53.30	51.30	43.80	40.80
16	25.00	8.20	50.30	48.30	39.70	36.70
20	25.00	9.30	48.80	46.80	37.80	34.80
25	24.30	10.40	47.30	45.30	35.80	32.80
31.25	23.60	11.80	45.90	43.90	33.90	30.90
62.3	21.50	17.10	41.10	39.40	27.80	24.80
100	20.10	22.20	38.30	36.30	23.80	20.80

CODICE / ITEM NR	SEZIONE / SECTION	DIAM. / EXT. DIAM. mm	Kg/Km
LUDER54A24UXNEB05	4x2xAWG24	6,2±0,2	40

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UTP CAT 5e JELLY PE

UTP CAT 5e JELLY PE

COSTRUZIONE / CONSTRUCTION

Conduttore / Conductor	24 AWG CU rosso / 24 AWG bare copper
Isolamento / Insulation	HDPE 0.91±0.1 mm
Guaina / Outer Sheath	RIEMPITIVO JELLY / JELLY FILLED + LDPE nero / black Diam. 5,40±0.2mm
Marcatura / Printing	ECS-UTP CAT.5e 4x2x24AWG JELLY FILLED EIA/TIA 568 ISO/IEC 11801 CEI-UNEL 36762 C-4 (U ₀ =400V) WW/YY [ORDER NR] 001MT

PROPRIETÀ ELETTRICHE / ELECTRICAL PROPERTIES

Resistenza conduttore / Conductor Resistance	<93,80Ω/Km a / at 20°C
Resistenza d'anello cc / CC Ring Resistance	<16.8Ω/100 m a 20°C
Capacità mutua / Mutual Capacitance	<56 pF/m
Impedenza / Standard impedance	100±15Ω tra / between 1 Mhz -100Mhz
Raggio Min curvatura / Min. Bending Radius	50 mm
Temperatura di esercizio / Operating Temperature	-20°C +60°C

NORMATIVE / RULES

ISO/IEC 11801-2Ed	10/100BASE (TIEEE 802.3)
ANSI TIA/EIA 568-B.2	ATM, TP-PMD, ANSI X39T.5(TP), LSDN, TP-DDI
EN 50173	ETHERNET, 1000BASE-T
EN-50288-3-1	GIGABIT-ETHERNET
UL	Token Ring (IEEE802.5)

APPLICAZIONI / APPLICATIONS

Frequency(MHz)	RL(dB)	ATT(dB /100)	NEXT(dB)	PS.NEXT(dB)	ELFEXT(dB)	PS.ELFEXT(dB)
1	20.00	2.10	68.00	66.00	63.80	60.80
4	23.00	4.20	59.20	57.20	51.70	48.80
8	24.50	5.90	54.80	52.80	45.70	42.70
10	25.00	6.60	53.30	51.30	43.80	40.80
16	25.00	8.30	50.30	48.30	39.70	36.70
20	25.00	9.40	48.80	46.80	37.80	34.80
25	24.30	10.30	47.30	45.30	35.80	32.80
31.25	23.60	11.80	45.90	43.90	33.90	30.90
62.3	21.50	17.10	41.10	39.40	27.80	24.80
100	20.10	22.20	38.30	36.30	23.80	20.80
155	18.80	28.20	35.40	33.40	20.00	17.00
200	18.00	32.50	33.70	31.70	17.70	14.70
240	17.40	36.10	32.60	30.60	16.20	13.20
300	16.80	41.10	31.20	29.20	14.20	11.20
350	16.30	45.00	30.10	28.10	12.90	9.90

CODICE / ITEM NR	SEZIONE / SECTION	DIAM. / EXT. DIAM. mm	Kg/Km
LUPER54A24UJNEB05	4x2xAWG24	5,40±0,2	38

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UTP CAT 6 – UTP CAT 6 LSZH

UTP CAT 6 – UTP CAT 6 LSZH



COSTRUZIONE / CONSTRUCTION

Conduttore / Conductor	23 AWG CU rosso / 23 AWG bare copper	
Isolamento / Insulation	LDPE 1.02±0.1 mm	
Guaina / Outer Sheath	PVC grigio / grey RAL7001 Diam. 6.1±0.2 mm	LSZH grigio / grey RAL7001 Diam. 6.10±0.2 mm
Marchatura / Printing	ECS-UTP CAT.6 4X2X23AWG ROHS EIA/TIA 568 ISO/IEC 11801 CEI-UNEL 36762 C-4(U ₀ =400V) WW/YY [ORDER NR] 305MT--001MT - Eca	ECS-UTP CAT.6 4x2x23AWG LSZH EIA/TIA 568 ISO/IEC 11801 CEI- UNEL 36762 C-4(U ₀ =400V) WW/YY [ORDER NR] --001MT - Eca

PROPRIETÀ ELETTRICHE / ELECTRICAL PROPERTIES

Resistenza conduttore / Conductor Resistance	<70 Ω/Km a / at 20°C
Resistenza d'anello cc / CC Ring Resistance	<16.8 Ω/100 m
Capacità mutua / Mutual Capacitance	<50 pF/m
Impedenza / Standard impedance	100±15 Ω tra / between 1 Mhz –100Mhz
Raggio Min curvatura / Min. Bending Radius	60 mm
Temperatura di esercizio / Operating Temperature	-20°C +60°C

NORMATIVE / RULES

ISO/IEC 11801-2Ed
ANSI TIA/EIA 568-B.2
EN 50173
EN 50288-3-1
UL
EN 50575: 2014/A1:16

APPLICAZIONI / APPLICATIONS

10/100BASE (TIEEE 802.3)
ATM(TP),ISDN,TP-DDI
ETHERNET, 1000BASE-T
GIGABIT-ETHERNET
TOKEN RING (IEEE 802.5)

Frequency(MHz)	RL(dB)	ATT(dB /100)	NEXT(dB)	PS.NEXT(dB)	ELFEXT(dB)	PS.ELFEXT(dB)
0.772	19.44	1.84	76.0	74.0	70.0	67.0
1	20.00	2.04	74.3	72.3	67.8	64.8
4	23.01	3.81	65.3	63.3	55.8	52.8
8	24.52	5.35	60.8	58.8	49.7	46.7
10	25.00	5.99	59.3	57.3	47.8	44.8
16	25.00	7.60	56.2	54.2	43.7	40.7
20	25.00	8.52	54.8	52.8	41.8	38.8
25	24.32	9.57	53.3	51.3	39.8	36.8
31.25	23.64	10.74	51.9	49.9	37.9	34.9
62.3	21.54	15.48	47.4	45.4	31.9	28.9
100	20.1	19.92	44.3	42.3	27.8	24.8
125	19.42	22.49	42.8	40.8	25.9	22.9
200	18.00	29.15	39.8	37.8	21.8	18.8

CODICE / ITEM NR	SEZIONE / SECTION	DIAM. / EXT. DIAM. mm	Kg/Km
LUPVR64A23UXGRS03	4x2xAWG23	6,10±0,2	40
LUHFR64A23UXGRS03	4x2xAWG23 LSZH	6,10±0,2	40

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UTP CAT 6 4x2xAWG24 LSZH

UTP CAT 6 4x2xAWG24 LSZH



COSTRUZIONE / CONSTRUCTION

Conduttore / Conductor	24 AWG CU rosso / 24 AWG bare copper
Isolamento / Insulation	PE 0.93±0.20 mm
Guaina / Outer Sheath	LSZH bianco / white 5,50±0,20 mm
Marcatura / Printing	ECS-UTP CAT6 4x2x24AWG LSZH EIA/TIA 568 ISO/IEC 11801 CEI-UNEL 36762 C-4 (U ₀ =400V) WW/YY [Order n.] 001MT Eca

PROPRIETÀ ELETTRICHE / ELECTRICAL PROPERTIES

Resistenza conduttore / Conductor Resistance	<90,38Ω/Km a / at 20°C
Resistenza d'anello cc / CC Ring Resistance	<16.8Ω/100 m a 20°C
Capacità mutua / Mutual Capacitance	<56 pF/m
Impedenza / Standard impedance	100±15Ω tra / between 1 Mhz -100Mhz
Raggio Min curvatura / Min. Bending Radius	50 mm
Temperatura di esercizio / Operating Temperature	-20°C +60°C

NORMATIVE / RULES

ISO/IEC 11801-2Ed	10/100BASE (TIEEE 802.3)
ANSI TIA/EIA 568-B.2	ATM, TP-PMD, ANSI X39T.5(TP), LSDN, TP-DDI
EN 50173	ETHERNET, 1000BASE-T
EN-50288-3-1	GIGABIT-ETHERNET
UL	Token Ring (IEEE802.5)
EN 50575: 2014/A1:16	

APPLICAZIONI / APPLICATIONS

Frequency(MHz)	RL(dB)	ATT(dB /100)	NEXT(dB)	PS.NEXT(dB)	ELFEXT(dB)	PS.ELFEXT(dB)
1	20.00	2.04	74.30	72.30	67.80	64.80
4	23.01	3.81	65.30	63.30	55.80	52.80
8	24.52	5.35	60.80	58.80	49.70	46.70
10	25.00	5.99	59.30	57.30	47.80	44.80
16	25.00	7.60	56.20	54.20	43.70	40.70
20	25.00	8.52	54.80	52.80	41.80	38.80
25	24.32	9.57	53.30	51.30	39.80	36.80
31.25	23.64	10.74	51.90	49.90	37.90	34.90
62.3	21.54	15.48	47.40	45.40	31.90	28.90
100	20.10	19.92	44.30	42.30	27.80	24.80
125	19.42	22.49	42.80	40.80	25.90	22.90
200	18.00	29.15	39.80	37.80	21.80	18.80
250	17.32	33.04	38.30	36.30	19.80	16.80

CODICE / ITEM NR	SEZIONE / SECTION	DIAM. / EXT. DIAM. mm	Kg/Km
LUHFR64A24UXBIS03	4x2xAWG24 LSZH	5,50±0,2	31



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UTP CAT 6 DOPPIA GUAINA PVC

UTP CAT 6 DOUBLE PVC JACKET



COSTRUZIONE / CONSTRUCTION

Conduttore / Conductor	23 AWG CU rosso / 23 AWG bare copper
Isolamento / Insulation	LDPE 1.02 mm
Prima Guaina / First Sheath	PVC grigio / grey RoHs 6.1±0.2 mm
Seconda Guaina / Second Sheath	PVC blu / blue RoHs Diam. 7.5±0.2 mm
Marcatura / Printing	UTP CAT.6-DG-PVC 4x2x23AWG- EIA/TIA 568 ISO/IEC 11801 CEI-UNEL 36762 C-4(Uo=400V) WW/YY [ORDER NR] 1000MT-- 0001MT - Eca

PROPRIETÀ ELETTRICHE / ELECTRICAL PROPERTIES

Resistenza conduttore / Conductor Resistance	< 70 Ω/Km a / at 20°C
Resistenza d'anello cc / CC Ring Resistance	<16.8 Ω/100 m
Capacità mutua / Mutual Capacitance	<50 pF/m
Impedenza / Standard impedance	100±15 Ω tra / between 1 Mhz -100Mhz
Raggio Min curvatura / Min. Bending Radius	60 mm
Temperatura di esercizio / Operating Temperature	-20°C +60°C

NORMATIVE / RULES

ISO/IEC 11801-2Ed
ANSI TIA/EIA 568-B.2
EN 50173
EN 50288-3-1
UL
EN 50575: 2014/A1:16

APPLICAZIONI / APPLICATIONS

10/100BASE (TIEEE 802.3)
ATM(TP),ISDN,TP-DDI
ETHERNET, 1000BASE-T
GIGABIT-ETHERNET
TOKEN RING (IEEE 802.5)

Frequency(MHz)	RL(dB)	ATT(dB /100)	NEXT(dB)	PS.NEXT(dB)	ELFEXT(dB)	PS.ELFEXT(dB)
0.772	19.44	1.84	76.0	74.0	70.0	67.0
1	20.00	2.04	74.3	72.3	67.8	64.8
4	23.01	3.81	65.3	63.3	55.8	52.8
8	24.52	5.35	60.8	58.8	49.7	46.7
10	25.00	5.99	59.3	57.3	47.8	44.8
16	25.00	7.6	56.2	54.2	43.7	40.7
20	25.00	8.52	54.8	52.8	41.8	38.8
25	24.32	9.57	53.3	51.3	39.8	36.8
31.25	23.64	10.74	51.9	49.9	37.9	34.9
62.3	21.54	15.48	47.4	45.4	31.9	28.9
100	20.1	19.92	44.3	42.3	27.8	24.8
125	19.42	22.49	42.8	40.8	25.9	22.9
200	18.00	29.15	39.8	37.8	21.8	18.8

CODICE / ITEM NR	SEZIONE / SECTION	DIAM. / EXT. DIAM. mm	Kg/Km
LUDPR64A23UXBLB05	4x2xAWG23	7,5±0,2	50

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UTP CAT 6 DOPPIA GUAINA PE

UTP CAT 6 DOUBLE PE JACKET

COSTRUZIONE / CONSTRUCTION

Conduttore / Conductor	23 AWG CU rosso / 23 AWG bare copper
Isolamento / Insulation	HDPE 1.02±0.1 mm
Prima Guaina / First Sheath	PVC Grigio / grey 6,10±0,20 mm
Seconda Guaina / Second Sheath	LDPE Nero / black 7,50±0,20 mm
Marchatura / Printing	ECS-UTP CAT.6-DG-PE 4x2x23AWG- EIA/TIA 568 ISO/IEC 11801 CEI-UNEL 36762 C-4 (U ₀ =400V) WW/YY [ORDER N.] 001MT

PROPRIETÀ ELETTRICHE / ELECTRICAL PROPERTIES

Resistenza conduttore / Conductor Resistance	<70Ω/Km a / at 20°C
Resistenza d'anello cc / CC Ring Resistance	<16.8Ω/100 m a 20°C
Capacità mutua / Mutual Capacitance	<56 pF/m
Impedenza / Standard impedance	100±15Ω tra / between 1 Mhz –100Mhz
Raggio Min curvatura / Min. Bending Radius	60 mm
Temperatura di esercizio / Operating Temperature	-20°C +60°C

NORMATIVE / RULES

ISO/IEC 11801-2Ed	10/100BASE (TIEEE 802.3)
ANSI TIA/EIA 568-B.2	ATM, TP-PMD, ANSI X39T.5(TP), LSDN, TP-DDI
EN 50173	ETHERNET, 1000BASE-T
EN-50288-3-1	GIGABIT-ETHERNET
UL	Token Ring (IEEE802.5)

APPLICAZIONI / APPLICATIONS

Frequency(MHz)	RL(dB)	ATT(dB /100)	NEXT(dB)	PS.NEXT(dB)	ELFEXT(dB)	PS.ELFEXT(dB)
0.772	19.44	1.84	76.00	74.00	70.00	67.00
1	20.00	2.04	74.30	72.30	67.80	64.80
4	23.01	3.81	65.30	63.30	55.80	52.80
8	24.52	5.35	60.80	58.80	49.70	46.70
10	25.00	5.99	59.30	57.30	47.80	44.80
16	25.00	7.60	56.20	54.20	43.70	40.70
20	25.00	8.52	54.80	52.80	41.80	38.80
25	24.32	9.57	53.30	51.30	39.80	36.80
31.25	23.64	10.74	51.90	49.90	37.90	34.90
62.3	21.54	15.48	47.40	45.40	31.90	28.90
100	20.10	19.92	44.30	42.30	27.80	24.80
125	19.42	22.49	42.80	40.80	25.90	22.90
200	18.00	29.15	39.80	37.80	21.80	18.80
250	17.32	33.04	38.30	36.30	19.80	16.80

CODICE / ITEM NR	SEZIONE / SECTION	DIAM. / EXT. DIAM. mm	Kg/Km
LUDER64A23UXNEB05	4x2xAWG23	7,5±0,2	50



UTP CAT 6 JELLY PE

UTP CAT 6 JELLY PE



COSTRUZIONE / CONSTRUCTION

Conduttore / Conductor	23 AWG CU rosso / 23 AWG bare copper
Isolamento / Insulation	HDPE 1.02±0.1 mm
Guaina Esterna / Outer Sheath	RIEMPITIVO JELLY / JELLY FILLED + LDPE nero / black Diam.6.30±0.2 mm
Marcatura / Printing	ECS-UTP CAT.6 4x2x23AWG JELLY FILLED EIA/TIA 568 ISO/IEC 11801 CEI-UNEL 36762 C-4 (U ₀ =400V) WW/YY [ORDER NR] 001MT

PROPRIETÀ ELETTRICHE / ELECTRICAL PROPERTIES

Resistenza conduttore / Conductor Resistance	<70Ω/Km a / at 20°C
Resistenza d'anello cc / CC Ring Resistance	<16.8Ω/100 m a 20°C
Capacità mutua / Mutual Capacitance	<56 pF/m
Impedenza / Standard impedance	100±15Ω tra / between 1 Mhz -100Mhz
Raggio Min curvatura / Min. Bending Radius	60 mm
Temperatura di esercizio / Operating Temperature	-20°C +60°C

NORMATIVE / RULES

ISO/IEC 11801-2Ed
ANSI TIA/EIA 568-B.2
EN 50173
EN-50288-3-1
UL

APPLICAZIONI / APPLICATIONS

10/100BASE (TIEEE 802.3)
ATM, TP-PMD, ANSI X39T.5(TP), LSDN, TP-DDI
ETHERNET, 1000BASE-T
GIGABIT-ETHERNET
Token Ring (IEEE802.5)

Frequency(MHz)	RL(dB)	ATT(dB /100)	NEXT(dB)	PS.NEXT(dB)	ELFEXT(dB)	PS.ELFEXT(dB)
0.772	19.44	1.84	76.00	74.00	70.00	67.00
1	20.00	2.04	74.30	72.30	67.80	64.80
4	23.01	3.81	65.30	63.30	55.80	52.80
8	24.52	5.35	60.80	58.80	49.70	46.70
10	25.00	5.99	59.30	57.30	47.80	44.80
16	25.00	7.60	56.20	54.20	43.70	40.70
20	25.00	8.52	54.80	52.80	41.80	38.80
25	24.32	9.57	53.30	51.30	39.80	36.80
31.25	23.64	10.74	51.90	49.90	37.90	34.90
62.3	21.54	15.48	47.40	45.40	31.90	28.90
100	20.10	19.92	44.30	42.30	27.80	24.80
125	19.42	22.49	42.80	40.80	25.90	22.90
200	18.00	29.15	39.80	37.80	21.80	18.80
250	17.32	33.04	38.30	36.30	19.80	16.80

CODICE / ITEM NR	SEZIONE / SECTION	DIAM. / EXT. DIAM. mm	Kg/Km
LUPER64A23UJNEB05	4x2xAWG23	6,3±0,2	48

UTP CAT 6a LSZH

UTP CAT 6a LSZH



CONSTRUZIONE / CONSTRUCTION

Conduttore / Conductor	23 AWG CU rosso / 23 AWG bare copper
Isolamento / Insulation	HDPE 1.06±0.1 mm
Guaina / Outer Sheath	LSZH bianco / white Diam.7.80±0.2 mm
Marcatura / Printing	ECS-UTP CAT6A 4x2x23AWG LSZH UP TO 500MHZ EIA/TIA 568 ISO/IEC 11801 CEI-UNEL 36762 C-4 (Uo=400V) WW/YY [Order n.] 001MT Eca

PROPRIETÀ ELETTRICHE / ELECTRICAL PROPERTIES

Resistenza conduttore / Conductor Resistance	<93,80Ω/Km a / at 20°C
Resistenza d'anello cc / CC Ring Resistance	<16.8Ω/100 m a 20°C
Capacità mutua / Mutual Capacitance	<56 pF/m
Impedenza / Standard impedance	100±15Ω tra 1MHz e 100MHz
Raggio Min curvatura / Min. Bending Radius	60 mm
Temperatura di esercizio / Operating Temperature	-20°C +60°C

NORMATIVE / RULES

ISO/IEC 11801-2Ed	10/100BASE (IEEE 802.3)
ANSI/TIA 568-C.2	ATM CB1G 155/622 Mbps ATM
EN 50173-1	ETHERNET, 1000BASE-T
EN-50288-3-1	GIGABIT-ETHERNET

APPLICAZIONI / APPLICATIONS

Frequency(MHz)	ATT(dB /100)	NEXT(dB)	PS.NEXT(dB)
1	2.10	74.30	72.30
10	5.90	59.30	57.30
100	19.10	44.30	42.30
200	27.60	39.80	37.80
250	31.10	38.30	36.30
300	34.30	37.10	35.10
400	40.10	35.30	33.30
500	45.30	33.80	31.80

CODICE / ITEM NR	SEZIONE / SECTION	DIAM. / EXT. DIAM. mm	Kg/Km
LUHFR64A23UABIB03	4x2xAWG23	7,8±0,2	40



FTP CAT 5e – FTP CAT 5e LSZH

FTP CAT 5e – FTP CAT 5e LSZH



COSTRUZIONE / CONSTRUCTION

Conduttore / Conductor	24 AWG CU rosso / 24 AWG bare copper	
Isolamento / Insulation	HDPE 0.91±0.1 mm	
Schermo / Shield	ALL/PET + filo di drenaggio / ALL/PET + Drain Wire	
Guaina / Outer Sheath	PVC grigio / grey RAL7001 Diam. 6.2±0.2 mm	PVC LSZH grigio / grey RAL7001 Diam. 6.20±0.2 mm
Marchatura / Printing	ECS-FTP CAT.5e 4X2X24AWG ROHS EIA/TIA 568 ISO/IEC 11801 CEI-UNEL 36762 C-4(Uo=400V) WW/YY [ORDER NR] 305MT--001MT - Eca	ECS-FTP CAT.5e 4x2x24AWG LSZH EIA/TIA 568 ISO/IEC 11801 CEI-UNEL 36762 C-4 (Uo=400V) WW/YY [ORDER NR] --001MT - Eca

PROPRIETÀ ELETTRICHE / ELECTRICAL PROPERTIES

Resistenza conduttore / Conductor Resistance	<93.8 Ω/Km a / at 20°C
Resistenza d'anello cc / CC Ring Resistance	<16.8 Ω/100 m
Capacità mutua / Mutual Capacitance	<56 pF/m
Capacità ambulante / Capacity unbalance	<100 pF/100 m
Impedenza / Standard impedance	100±15 Ω tra / between 1 Mhz –100Mhz
Raggio Min curvatura / Min. Bending Radius	60 mm
Temperatura di esercizio / Operating Temperature	-20°C +60°C

NORMATIVE / RULES

ISO/IEC 11801-2Ed
ANSI TIA/ EIA 568-B.2
EN 50173
EN-50288-3-1
UL
EN 50575:2014/A1:16

APPLICAZIONI / APPLICATIONS

10/100BASE(TIEEE 802.3)
ATM(TP),ISDN,TP-DDI
ETHERNET, 1000 BASE-T
GIGABIT ETHERNET
TOKEN RING (IEEE802.5)

Frequency(MHz)	RL(dB)	ATT(dB /100)	NEXT(dB)	PS.NEXT(dB)	ELFEXT(dB)	PS.ELFEXT(dB)
1	20	2.0	65.3	62.3	63.8	60.8
4	23.0	4.1	56.3	53.3	51.7	48.8
8	24.5	5.8	51.3	48.8	45.7	42.7
10	25	6.5	50.3	47.3	43.8	40.8
16	25	8.2	47.3	44.3	39.7	36.7
20	25	9.3	45.8	42.8	37.8	34.8
25	24.3	10.4	44.3	41.3	35.8	32.8
31.25	23.3	11.7	42.9	39.9	33.9	30.9
62.3	20.7	17.0	38.4	35.4	27.8	24.8
100	19.0	22.0	35.3	32.2	23.8	20.8

CODICE / ITEM NR	SEZIONE / SECTION	DIAM. / EXT. DIAM. mm	Kg/Km
LFPVR54A24UXGRS03	4x2xAWG24	6.2±0.2	39
LFHFR54A24UXGRS03	4x2xAWG24 LSZH	6.2±0.2	39

I dati riportati sono da considerarsi indicativi e non strettamente vincolanti / The details expressed above have to be considered as an indication.
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FTP CAT 5e DOPPIA GUAINA PVC

FTP CAT 5e DOUBLE PVC JACKET



CONSTRUZIONE / CONSTRUCTION

Conduttore / Conductor	24 AWG CU rosso / 24 AWG bare copper
Isolamento / Insulation	HDPE 0.91±0.1 mm
Schermo / Shield	ALL/PET + filo di drenaggio / ALL/PET + Drain Wire
Prima Guaina / First Sheath	PVC grigio / grey 6.2±0.1 mm
Seconda Guaina / Second Sheath	PVC blu / blue RoHS Diam. 7.5±0.2 mm
Marcatura / Printing	ECS-FTP CAT.5e-DG-PVC 4x2x24AWG- EIA/TIA 568 ISO/IEC 11801 CEI-UNEL 36762 C-4(U ₀ =400V) WW/YY [ORDER NR] 1000MT-- 0001MT - Eca

PROPRIETÀ ELETTRICHE / ELECTRICAL PROPERTIES

Resistenza conduttore / Conductor Resistance	<93.8 Ω/Km a / at 20°C
Resistenza d'anello cc / CC Ring Resistance	<16.8 Ω/100 m
Capacità mutua / Mutual Capacitance	<56 pF/m
Capacità ambulante / Capacity unbalance	<100 pF/100 m
Impedenza / Standard impedance	100±15 Ω tra / between 1 Mhz -100Mhz
Raggio Min curvatura / Min. Bending Radius	60 mm
Temperatura di esercizio / Operating Temperature	-20°C +60°C

NORMATIVE / RULES

ISO/IEC 11801-2Ed	10/100BASE (TIEEE 802.3)
ANSI TIA/EIA 568-B.2	ATM,TP-PMD,ANSIX 397.5(TP)LSDN,TP-DDI
EN 50173	ETHERNET, 1000BASE-T
EN 50288-3-1	GIGABIT-ETHERNET
UL	TOKEN RING (IEEE 802.5)

APPLICAZIONI / APPLICATIONS

Frequency(MHz)	RL(dB)	ATT(dB /100)	NEXT(dB)	PS.NEXT(dB)	ELFEXT(dB)	PS.ELFEXT(dB)
1	20.00	2.00	65.30	62.30	63.80	60.80
4	23.00	4.10	56.30	53.30	51.70	48.80
8	24.50	5.80	51.30	48.80	45.70	42.70
10	25.00	6.50	50.30	47.30	43.80	40.80
16	25.00	8.20	47.30	44.30	39.70	36.70
20	25.00	9.30	45.80	42.80	37.80	34.80
25	24.30	10.40	44.30	41.30	35.80	32.80
31.25	23.30	11.70	42.90	39.90	33.90	30.90
62.3	20.70	17.00	38.40	35.40	27.80	24.80
100	19.00	22.00	35.30	32.20	23.80	20.80

CODICE / ITEM NR	SEZIONE / SECTION	DIAM. / EXT. DIAM. mm	Kg/Km
LF DPR54A24UXBLB05	4x2xAWG24	7,5±0,2	48



I dati riportati sono da considerarsi indicativi e non strettamente vincolanti / The details expressed above have to be considered as an indication.
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FTP CAT 5e DOPPIA GUAINA PE

FTP CAT 5e DOUBLE PE JACKET



COSTRUZIONE / CONSTRUCTION

Conduttore / Conductor	24 AWG CU rosso / 24 AWG bare copper
Isolamento / Insulation	HDPE 0.91±0.1 mm
Schermo / Shield	ALL/PET + filo di drenaggio + PET / ALL/PET + Drain Wire + PET
Prima Guaina / First Sheath	PVC grigio / grey RAL7001 Diam.6.20±0.2 mm
Seconda Guaina / Second Sheath	LDPE Nero / black Diam. 7.4± 0.2 mm
Marcatura / Printing	ECS-FTP CAT.5e-DG-PE 4x2x24AWG- EIA/TIA 568 ISO/IEC 11801 CEI-UNEL 36762 C-4 (U ₀ =400V) WW/YY [ORDER NR]--0001MT

PROPRIETÀ ELETTRICHE / ELECTRICAL PROPERTIES

Resistenza conduttore / Conductor Resistance	<93,80Ω/Km a / at 20°C
Resistenza d'anello cc / CC Ring Resistance	<16.8Ω/100 m
Capacità mutua / Mutual Capacitance	<56 pF/m
Capacità ambulante / Capacity unbalance	<100 pF/100 m
Impedenza / Standard impedance	100±15Ω; tra / between 1 Mhz -100Mhz
Raggio Min curvatura / Min. Bending Radius	60 mm
Temperatura di esercizio / Operating Temperature	-20°C +60°C

NORMATIVE / RULES

ISO/IEC 11801-2Ed
EN 50173
ANSI TIA/EIA 568-B.2
EN 50288-3-1
UL

APPLICAZIONI / APPLICATIONS

10/100BASE (TIEEE 802.3)
ETHERNET, 1000BASE-T
ATM, TP-PMD, ANSI X39T.5(TP),LSDN,TP-DDI
GIGABIT-ETHERNET
TOKEN RING (IEEE 802.5)

Frequency(MHz)	RL(dB)	ATT(dB /100)	NEXT(dB)	PS.NEXT(dB)	ELFEXT(dB)	PS.ELFEXT(dB)
1	20.00	2.00	65.30	62.30	63.80	60.80
4	23.00	4.10	56.30	53.30	51.70	48.80
8	24.50	5.80	51.30	48.80	45.70	42.70
10	25.00	6.50	50.30	47.30	43.80	40.80
16	25.00	8.20	47.30	44.30	39.70	36.70
20	25.00	9.30	45.80	42.80	37.80	34.80
25	24.30	10.40	44.30	41.30	35.80	32.80
31.25	23.30	11.70	42.90	39.90	33.90	30.90
62.3	20.70	17.00	38.40	35.40	27.80	24.80
100	19.00	22.00	35.30	32.20	23.80	20.80

CODICE / ITEM NR	SEZIONE / SECTION	DIAM. / EXT. DIAM. mm	Kg/Km
LFDER54A24UXNEB05	4x2xAWG24	7,4±0,2	48

F/FTP CAT 6a LSZH

F/FTP CAT 6a LSZH



COSTRUZIONE / CONSTRUCTION

Conduttore / Conductor	23 AWG CU rosso / 23 AWG bare copper
Isolamento / Insulation	FPE 1.25±0.02 mm
Schermo / Shield	Singola coppia ALL/PET / Single pair with ALL/PET
Secondo Schermo / Second Shield	ALL/PET + filo di drenaggio / ALL/PET + Drain Wire
Guaina Esterna / Outer Sheath	LSZH bianco / white Diam. 7,20±0.02 mm
Marcatura / Printing	ECS-F/FTP CAT.6A LSZH 4x2x23AWG ROHS EIA/TIA 568 ISO/ IEC 11801 CEI-UNEL 36762 C-4 (U ₀ =400V) WW/YY [ORDER N.] 001MT - Eca

PROPRIETÀ ELETTRICHE / ELECTRICAL PROPERTIES

Resistenza conduttore / Conductor Resistance	<76,10Ω/Km a 20°C
Resistenza d'anello cc / CC Ring Resistance	<16.8Ω/100 m
Capacità mutua / Mutual Capacitance	<4,2 pF/100 m
Capacità ambulante / Capacity unbalance	<160 pF/100 m
Impedenza / Standard impedance	100±15Ω tra / between 1 Mhz -100Mhz
Raggio Min curvatura / Min. Bending Radius	60 mm
Temperatura di esercizio / Operating Temperature	-20°C +60°C

NORMATIVE / RULES

ANSI TIA 568-C.2 Cat.6A
ISO/IEC 11801-2Ed
EN 50173
EN-50288-10-1
EN 50575:2014/A1:16

APPLICAZIONI / APPLICATIONS

ATM CB1G 155/622 Mbps ATM
10/100BASE (TIEEE 802.3)
ETHERNET, 1000BASE-T
1000BASE-T GIGABIT ETHERNET

Frequency(MHz)	RL(dB)	ATT(dB /100)	NEXT(dB)	PS.NEXT(dB)	ELFEXT(dB)	PS.ELFEXT(dB)
1	20.00	2.10	75.30	72.30	68.00	65.00
10	25.00	5.90	60.30	57.30	48.00	45.00
16	25.00	7.50	57.20	54.20	43.90	40.90
20	25.00	8.40	55.80	52.80	42.00	39.00
62.5	21.50	15.00	48.40	45.40	32.10	29.10
100	20.10	19.10	45.30	42.30	28.00	25.00
155	18.80	24.10	42.40	39.40	24.20	21.20
200	18.00	27.60	40.80	37.80	22.00	19.00
250	17.30	31.10	39.30	36.30	20.00	17.00
300	16.80	34.30	38.10	35.10	18.50	15.50
350	16.30	37.20	37.10	34.10	17.10	14.10

CODICE / ITEM NR	SEZIONE / SECTION	DIAM. / EXT. DIAM. mm	Kg/Km
LSHFR64A23UABIB05	4x2xAWG23 LSZH	7,2±0,2	42



UTP CAT 5e CCA

UTP CAT 5e CCA



COSTRUZIONE / CONSTRUCTION

Conduttore / Conductor	24 AWG alluminio ramato 40% / 24 AWG copper clad aluminium 40%
Isolamento / Insulation	HDPE 0.88±0.1 mm
Guaina / Outer Sheath	PVC grigio / grey RAL7001 Diam. 5.1±0.1 mm
Marchatura / Printing	ECS-UTP CAT.5e 4X2X24AWG CCA ROHS EIA/TIA 568 ISO/IEC 11801 CEI-UNEL 36762 C-4 (Uo=400V) WW/YY [ORDER NR] 305MT--001MT - Eca

PROPRIETÀ ELETTRICHE / ELECTRICAL PROPERTIES

Resistenza conduttore / Conductor Resistance	<9.38 Ω/100 m a / at 20°C
Resistenza d'anello cc / CC Ring Resistance	<16.8 Ω/100 m
Capacità mutua / Mutual Capacitance	<56 pF/m
Impedenza / Standard impedance	100±15 Ω tra / between 1 Mhz -100Mhz
Raggio Min curvatura / Min. Bending Radius	50 mm
Temperatura di esercizio / Operating Temperature	-20°C +60°C

NORMATIVE / RULES

ISO/IEC 11801-2Ed
EN 50173
ANSI TIA/EIA 568-B.2
UL
EN 50575:2014/A1:16

APPLICAZIONI / APPLICATIONS

10/100BASE (TIEEE 802.3)
ETHERNET, 1000BASE-T
ATM, TP-PMD, ANSI X39T.5(TP),LSDN,TP-DDI
TOKEN RING (IEEE 802.5)

Frequency(MHz)	RL(dB)	ATT(dB /100)	NEXT(dB)	PS.NEXT(dB)	ELFEXT(dB)	PS.ELFEXT(dB)
1	20.00	2.10	68.00	66.00	63.80	60.80
4	23.00	4.20	59.20	57.20	51.70	48.80
10	25.00	6.60	53.30	51.30	43.80	40.80
16	25.00	8.30	50.30	48.30	39.70	36.70
20	25.00	9.40	48.80	46.80	37.80	34.80
31.25	23.60	11.80	45.90	43.90	33.90	30.90
62.3	21.50	17.10	41.10	39.40	27.80	24.80
100	20.10	22.20	38.30	36.30	23.80	20.80

CODICE / ITEM NR	SEZIONE / SECTION	DIAM. / EXT. DIAM. mm	Kg/Km
LUPVA54A24UXGRS03	4x2xAWG24	5,1±0,2	24

FTP CAT 5e CCA

FTP CAT 5e CCA



COSTRUZIONE / CONSTRUCTION

Conduttore / Conductor	24 AWG alluminio ramato 40% / 24 AWG copper clad aluminium 40%
Isolamento / Insulation	HDPE 0.91 mm
Schermo / Shield	ALL/PET + filo di drenaggio / ALL/PET + Drain Wire
Guaina / Outer Sheath	PVC grigio / grey RAL7001 Diam. 6.2±0.1 mm
Marcatura / Printing	ECS-FTP CAT.5e 4X2X24AWG CCA ROHS EIA/TIA 568 ISO/IEC 11801 CEI-UNEL 36762 C-4 (U ₀ =400V) WW/YY [ORDER NR] 305MT--001MT - Eca

PROPRIETÀ ELETTRICHE / ELECTRICAL PROPERTIES

Resistenza conduttore / Conductor Resistance	<15.6 Ω/100 m a / at 20°C
Resistenza d'anello cc / CC Ring Resistance	<16.8 Ω/100 m
Capacità mutua / Mutual Capacitance	<54 pF/m
Capacità ambulante / Capacity unbalance	<100 pF/100 m
Impedenza / Standard impedance	100±15 Ω tra / between 1 Mhz -100Mhz
Raggio Min curvatura / Min. Bending Radius	50 mm
Temperatura di esercizio / Operating Temperature	-20°C +60°C

NORMATIVE / RULES

ISO/IEC 11801-2Ed	10/100BASE (TIEEE 802.3)
ANSI TIA/EIA 568-B.2	ATM, TP-PMD, ANSI X39T.5(TP),LSDN,TP-DDI
EN 50288-3-1	GIGABIT ETHERNET
UL	TOKEN RING (IEEE 802.5)
EN 50575:2014/A1:16	

APPLICAZIONI / APPLICATIONS

Frequency(MHz)	RL(dB)	ATT(dB /100)	NEXT(dB)	PS.NEXT(dB)	ELFEXT(dB)	PS.ELFEXT(dB)
4	23.01	4.30	56.30	53.30	50.00	49.00
10	25.00	6.70	50.30	47.30	42.00	41.00
16	25.00	8.40	47.30	44.30	37.90	36.90
20	25.00	9.50	45.80	42.80	36.00	35.00
31.25	23.64	11.90	42.90	39.90	34.10	31.00
62.3	21.54	17.30	38.40	35.40	26.10	25.00
100	20.11	24.00	35.30	32.30	22.00	21.00

CODICE / ITEM NR	SEZIONE / SECTION	DIAM. / EXT. DIAM. mm	Kg/Km
LFPVA54A24UXGRS03	4x2xAWG24	6,2±0,2	32

