



R6UT4Y23 - R6UT4H23 U/UTP

Suitable for Gigabit Ethernet
tested up to 500 MHz

U/UTP CAT6, unshielded 4-pair cable (100 Ohm) with cross separator, PVC or LSZH (Low Smoke Zero Halogen) flame retardant jacket, tested up to 500 MHz. Suitable for the realization of transmission channels of Class E.

Applications and performance

Cable suitable for the realization of generic cabling systems according to EN 50173 Ed. 2; ISO/IEC 11801 Ed. 2.

Ideal for indoor applications in Class E up to 1GbE on IEEE 802.3ab protocol, Voip and PoE. Electrical characteristics exceed Category 6 requirements.

Certifications and approvals

DELTA approval for data transmission cables of Category 6 according to ISO/IEC 11801 Ed. 2:2011; IEC 61156-5 Ed. 2.0: 2009; EN 50173-1:2011; EN 50173-2 amendment A1:2010 included; EN 50288-6-1:2003; ANSI/TIA-568-C.2.

Construction characteristics

Inner conductors - material/diameter	Solid bare copper/AWG 23/1(0,57 mm)
Insulation - material/diameter	High density PE max diam. 1,0 mm
Cable diameter	6,6 mm
Outer jacket - material/color	PVC/White RAL 9018 LSZH/Orange RAL 2003
Lead-free	Yes
Cable weight	39 kg/Km

Mechanical and environmental properties

Use	Indoor
Bend. radius during installation	60 mm (8 x outer diameter)
Bend. radius after installation	30 mm (4 x outer diameter)
Max pull strength	110 N (11kg max.)
Installation temperature	From 0°C to +50°C
Operating temperature	From -20°C to +75°C

Fire behavior

Flame retardance	EN 60332-1-2; CEI 20-35/1
Acid gas emission (only for LSZH)	EN 50267-2-1; CEI 20-37/2-1
Smoke density (only for LSZH)	EN 50268-2; CEI 20-37/3-1
Heat release	816 (PVC) and 612 (LSZH) MJ/km

Electrical properties at 20°C

DC loop cond. resistance	16,4 Ohm/100m
Insulation resistance	5 GOhm x km
Mutual capacitance	48 pF/m
Capacitance unbalance	1000 pF/km
NVP nominal velocity of propagation	68%
Max. propagation delay	485 ns/100m
Characteristic impedance	100 ± 15 Ohm
Dielectric strength	700 Vac / 2 min

*according to EN 50288-6-1(2004)/IEC 61156-5(2002)

ELECTRICAL CHARACTERISTICS ACCORDING TO FREQUENCY																
Freq MHz	Attenuation dB/100m		NEXT dB		PS-NEXT dB		ACR dB@100m		PS-ACR dB@100m		ACR-F dB@100m		PS-ACR-F dB@100m		RL dB	
	max.*	Typ.	min.*	Typ.	min.*	Typ.	min.*	Typ.	min.*	Typ.	min.*	Typ.	min.*	Typ.	min.*	Typ.
1	2.1	1.7	66	90	64	87	64	88.3	62	85.3	66	86	64	77	-	26
10	6	5.2	59	80	57	73	53	74.8	51	67.8	50	68	47	61	25	32
31.25	10.7	9.4	52	72	50	66	41	62.6	39	56.6	40	60	37	51	23.6	33
62.5	15.5	13.5	47	67	45	61	32	53.5	30	47.5	34	54	31	46	21.5	31
100	19.9	17.1	44	65	42	57	24	47.9	22	39.9	30	48	27	41	20.1	30
155	25.3	21.6	41	62	39	54	16	40.4	14	32.4	26	45	23	37	18.8	28
200	29.1	24.7	40	60	38	53	11	35.3	9	28.3	24	41	21	35	18	27
250	33	27.6	38	57	36	52	5	29.4	3	24.4	22	36	19	30	17.3	26
300	-	31.2	-	55	-	51	-	23.8	-	19.8	-	35	-	29	-	25
400	-	36	-	53	-	49	-	17	-	13	-	32	-	26	-	23
500	-	40.7	-	51	-	48	-	10.3	-	7.3	-	30	-	24	-	21

Codice	Descrizione	Imballo
M0502820	R6UT4Y23 - U/UTP PVC 4x2x23AWG - non schermato	305/1000 mt
M0502669	R6UT4H23 - U/UTP LSZH 4x2x23AWG - non schermato	305/1000 mt