



Alston Systems Cat.3 Outdoor jelly filled telephone cables are primarily designed for the interconnection of various buildings in a campus environment. These cables are suitable for installation in outdoor ducts. In addition these cables may be used for the interconnection of other communication and control equipment or low level signaling applications. UV-blocking compounds also aid in protecting the cable from light. This range of unshielded cables is designed to support Cat.3 Link and Channel performance, with internationally defined physical and electrical performance up to 16MHz.

COPPER SYSTEMS

Technical Parameters

Conductor	AWG	24
	Structure	1/0.486±0.008mm
	Outer Diameter	0.486mm
	Material	BC
Insulation	Thickness	0.26mm(Nominal)
	O.D.	1.05±0.05mm
	Material	HDPE
	Color	(SEE Color of insulation table)
Filler	Type	Jelly Filled
Shield	Tape	PET
	Material	RIP CORD
	Tape	Al
Jacket	Thickness	1.2mm(Nominal)
	O.D.	22.5±1.0mm
	Material	PE
	Color	Black

Color of Insulation

No.	Non Stripe	Non Stripe	No.	Non Stripe	Non Stripe	No.	Non Stripe	Non Stripe	No.	Non Stripe	Non Stripe	No.	Non Stripe	Non Stripe
1	White	Blue	6	Red	Blue	11	Black	Blue	16	Yellow	Blue	21	Purple	Blue
2	White	Orange	7	Red	Orange	12	Black	Orange	17	Yellow	Orange	22	Purple	Orange
3	White	Green	8	Red	Green	13	Black	Green	18	Yellow	Green	23	Purple	Green
4	White	Brown	9	Red	Brown	14	Black	Brown	19	Yellow	Brown	24	Purple	Brown
5	White	Grey	10	Red	Grey	15	Black	Grey	20	Yellow	Grey	25	Purple	Grey

Electrical Performance

Item	Parameter
Conductor Resistance	$\leq 97.8\Omega/1000m$
Insulation Resistance	$\geq 3000M\Omega Km(DC500V \text{ Charged } 1Min)$
Voltage Endurance	DC 1000V/min
Core-core Resistance Unbalance	$\leq 2.5\%$

High Frequency Performance

Item Freq	NEXT $\geq dB$	SRL $dB \geq$	SKEW $\leq ns/100m$	IL $\leq dB/100M$	NOTE
1MHz	39.1	N/A	50	4.2	TIA Cat 3 Channel
4MHz	29.3			7.3	
8MHz	24.3			10.2	
10MHz	22.7			11.5	
16MHz	19.3			14.9	

Item Freq	NEXT $\geq dB$	SRL $dB \geq$	SKEW $\leq ns/100m$	ATTN $\leq dB/100M$	NOTE
1MHz	44.3	12.0	45	2.6	100M TEST Promised 10% line of parameter variation (unqualified)
4MHz	35.3	12.0		5.6	
8MHz	30.8	12.0		8.5	
10MHz	29.3	12.0		9.7	
16MHz	26.2	10.0		13.1	

ORDERING INFORMATION

Part No	Description
304330043	Alston Systems, Cat3 Outdoor Cable 4 Pair, Jelly filled, PE 500 MTRS
304330053	Alston Systems, Cat3 Outdoor Cable 5 Pair, Jelly filled, PE 500 MTRS
304330063	Alston Systems, Cat3 Outdoor Cable 6 Pair, Jelly filled, PE 500 MTRS
304330103	Alston Systems, Cat3 Outdoor Cable 10 Pair, Jelly filled, PE 500 MTRS
304330253	Alston Systems, Cat3 Outdoor Cable 25 Pair, Jelly filled, PE 500 MTRS
304330503	Alston Systems, Cat3 Outdoor Cable 50 Pair, Jelly filled, PE 500 MTRS
304331003	Alston Systems, Cat3 Outdoor Cable 100 Pair, Jelly filled, PE 500 MTRS