

Product Design Card																									
Product Description : CAT6 24AWG/4PR UTP SPLINELESS RISER (CMR) CABLE																									
Construction Item Description			Electrical Property																						
Conductor	Material	Bare Solid Copper (elongation : 19 ~ 24%)	Conductor Resistance at 20°C																						
	OD	0.52 ± 0.005 mm	≤ 9.5 Ω / 100m																						
Insulation	Material	HDPE 8303	Resistance unbalance within a pair																						
	OD	0.90 ± 0.01 mm	≤ 2%																						
	Average THK	0.20 mm	Insulation Resistance at 20°C after 2min of electrification under a DC voltage between 100 & 500V																						
	Color	1p: white + 2 blue stripes & blue	Mutual capacitance		>1500 MΩ / 100m																				
		2p: white + 2 orange stripes & orange	Capacitance unbalance pair to ground at 800Hz or 1 kHz		5600 pF / 100m MAX																				
3p: white + 2 green stripes & green		Characteristic impedance at 100MHz		≤ 160 pF / 100m																					
4p: white + 2 brown stripes & brown	Dielectric Strength Test Voltage (cd/cd,cd/screen): 1.00KV DC or 0.7 KV AC for 1 min		100 ± 15 Ω																						
Pair Twist	Lay & Direction	1p: S=20.0 mm (28%)	<table border="1"> <thead> <tr> <th colspan="3">Mechanical Property</th> </tr> </thead> <tbody> <tr> <td rowspan="4">insulation</td> <td>elongation before aging</td> <td>≥ 300%</td> </tr> <tr> <td>tensile strength before aging</td> <td>≥12 MPa</td> </tr> <tr> <td>elongation after aging</td> <td>≥ 150 %</td> </tr> <tr> <td>tensile strength after aging</td> <td>≥10.5 MPa</td> </tr> <tr> <td rowspan="4">jacket</td> <td>elongation before aging</td> <td>≥ 150 %</td> </tr> <tr> <td>tensile strength before aging</td> <td>≥ 13.5 MPa</td> </tr> <tr> <td>elongation after aging</td> <td>≥ 125 %</td> </tr> <tr> <td>tensile strength after aging</td> <td>≥ 12.5 MPa</td> </tr> </tbody> </table>		Mechanical Property			insulation	elongation before aging	≥ 300%	tensile strength before aging	≥12 MPa	elongation after aging	≥ 150 %	tensile strength after aging	≥10.5 MPa	jacket	elongation before aging	≥ 150 %	tensile strength before aging	≥ 13.5 MPa	elongation after aging	≥ 125 %	tensile strength after aging	≥ 12.5 MPa
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2p: S=17.5 mm (24%)																									
3p: S=22.0 mm (32%)																									
4p: S=15.5 mm (21%)																									
OD	/																								
Inner Assemble	Lay	S=80 ± 5 mm																							
	Direction	according to the drawing																							
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Material	Ripcord																								
Construction	300D																								
Outside Shield	Shield	/																							
	Construction	/																							
	Material	/																							
	Coverage	/																							
Jacket	Material	PVC, 60P, -20~75°C																							
	Hardness	81 ± 3																							
	OD	4.8 ± 0.15																							
	Average THK	0.30 ~ 0.40																							
	Color	according to the customer's requirements																							
Marking Color	black																								
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