

Cat. 5e 4x2x24/1 AWG F/UTP Outdoor PVC/PVC UL (1581 VW 1) (UL) LISTED E211498

Part Number: **8393204xxx**

Applications:	Outdoor installations, Fixed or portable installations, Digital distribution frames in transmission stations, Outdoor installations in harsh environments
General Construction:	Custom made cable designed specially for wireless systems, meeting the requirements of Cat. 5e per ANSI/TIA/EIA-568-B.2 and IEC 61156-5. The cable contains 4 twisted pairs, cabled, foil-tape shielded and jacketed with two special black UV resistant, flame retardant PVC compounds for direct outdoor use in harsh electrical environments. The diameter of the inner core complies with RJ45 connecting hardware allowing direct connection to equipment without patch cords.
Outer Jacket Material:	UV resistant FR-PVC
Outer Diameter:	7.9 mm nom.
Weight:	68.0 kg/km



Design & Materials

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Detailed Construction:
Cat. 5e Horizontal Cables *

Freq. MHz	Attenuation dB/100m 20°C		PS NEXT Loss dB		NEXT Loss dB		RL dB		PS ELFEXT dB		ELFEXT dB	
	Typical Value	Cat. 5e	Typical Value	Cat. 5e	Typical Value	Cat. 5e	Typical Value	Cat. 5e	Typical Value	Cat. 5e	Typical Value	Cat. 5e
1	2.0	2.1	68.3	62.3	71.3	65.3	22.0	20.0	64.0	61.0	67.0	64.0
4	3.9	4.1	59.3	53.3	62.3	56.3	25.0	23.0	52.0	49.0	55.0	52.0
10	6.2	6.5	53.3	47.3	56.3	50.3	28.0	25.0	44.0	41.0	47.0	44.0
20	8.8	9.3	48.8	42.8	51.8	45.8	28.0	25.0	38.0	35.0	41.0	38.0
30	10.9	11.5	46.1	40.1	49.1	43.1	27.0	23.8	35.0	31.5	38.0	34.5
60	15.8	16.6	41.6	35.6	44.6	38.6	24.0	21.1	28.0	25.4	31.0	28.4
100	21.0	22.0	38.3	32.3	41.3	35.3	22.0	18.8	24.0	21.0	27.0	24.0

* Supplied cables meet minimum Cat. 5e transmission requirements of IEC 61156-5 Ed. 2 and ANSI/EIA/TIA 568-B.2

Conductor Material:	Bare Copper
Conductor Size:	24 AWG
Conductor Size:	0.52 mm
Insulation Material:	Solid PO
Insulation O.D.:	1.07 mm nom.
Color code:	Per TIA/EIA 568-B
Overall Shield Design:	100% Coverage
Overall Shield Material:	Aluminum/Polyester Foil
Overall Foil Shield:	Yes
Overall Drain-wire Material:	Tinned Copper
Overall Drain-wire size:	24 AWG
Overall Drain-wire Construction:	Stranded
Inner Jacket Material:	UV resistant FR-PVC
Inner Jacket Diameter nom.:	6.1 mm nom
Inner Jacket Color:	Black
2nd Inner Jacket Color:	Black
3rd Inner Jacket Color:	Black
Total number of conductors:	8
Outer Jacket Color:	Black
Marking:	Teldor Standard, Per request

Standards

Applicable Standards:	IEC 61156, TIA/EIA-568, RoHS 2002/95/EC
Flamability Rating:	IEC 60332-3 , UL 1581 VW-1

Performance

Frequency Range:	1 - 100 MHz
Impedance:	100
Max. DC Resistance :	92 /km@20°C
Max. Resistance Unbalance:	2 %
Capacitance:	52 pF/m
Capacitance Unbalance:	1.4 pF/m max.
Velocity of Propagation:	68 % nom.
Propagation Delay Skew:	35 ns/100m max.
Dielectric Strength:	700 V/minute
Dielectric Strength to Shield:	700 V/minute
Min. Insulation Resistance :	5 G •km
Min. Bend Radius:	70 mm
Max. Operating Temperature:	+70 °C
Min. Operating Temperature:	-40 °C

Prepared By	Revised By	Version Num	Modified on
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