

Signal Cables

300V Paired, UL 2464

PVC Insulated, Overall Foil Screen, PVC Sheathed Cable

Description: TC/PVC/OS/PVC



Application :	For internal and external wiring of electronic equipment.
Voltage rating :	300V
Construction :	Tinned annealed copper, PVC insulated, twisted pair(s), aluminium/polyester tape with tinned copper drain wire, PVC sheathed cable
Insulation colour :	According to Table 11 (page 47)
Sheath colour :	Grey
Specification :	UL 758, UL 1581, UL style 2464, IEC 60332-1-2
Operating temperature :	80°C

No. of Pair	Conductor		Insulation	Screen	Part No.	Approx. Overall Diam.	Approx. Weight	Maximum Conductor Resistance at 20°C
	Size	No./Diam. of Strand	Thickness					
	(AWG)	(no./mm)	(mm)			(mm)	(kg/km)	(Ω/km)
1P	22	7/0.254	0.4	Al/PET tape	451P1002	5.1	37	59.4
2P					452P1002	7.0	65	
3P					453P1002	7.5	84	
4P					454P1002	8.2	95	
5P					455P1002	9.1	105	
6P					456P1002	9.8	124	
8P					458P1002	11.0	152	
10P					450P1002	12.5	188	
1P	20	7/0.32	0.4	Al/PET tape	461P1002	5.8	47	36.7
2P					462P1002	7.8	80	
3P					463P1002	8.2	104	
4P					464P1002	9.2	125	
5P					465P1002	10.2	136	
6P					466P1002	11.2	162	

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	Size	No./Diam. of Strand	Thickness					
	(AWG)	(no./mm)	(mm)			(mm)	(kg/km)	(Ω/km)
1P	18	16/0.254	0.4	Al/PET tape	471P1002	6.1	52	23.5
2P					472P1002	9.1	103	
3P					473P1002	9.8	139	
4P					474P1002	10.6	163	
5P					475P1002	11.5	181	
6P					476P1002	12.6	208	
1P	16	19/0.287	0.5	Al/PET tape	481P1002	6.7	69	14.6
2P					482P1002	10.6	134	
3P					483P1002	11.4	182	
4P					484P1002	12.6	215	
5P					485P1002	14.0	264	
6P					486P1002	15.2	306	

Table 10 : Correction Factor for Ambient Air Temperature Other than 30°C to be Applied to the Current-Carrying Capacities for Cables in Free Air

Insulation	Ambient Temperature (°C)															
	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
PVC (70°C)	1.22	1.17	1.12	1.06	1.00	0.94	0.87	0.79	0.71	0.61	0.50	0.35	-	-	-	-
XLPE (90°C)	1.15	1.12	1.08	1.04	1.00	0.96	0.91	0.87	0.82	0.76	0.71	0.65	0.58	0.50	0.41	0.29
PVC (90°C)	-	-	-	1.03	1.00	0.97	0.94	0.91	0.87	0.84	0.80	0.76	0.71	0.61	0.50	0.35

Table 11 : UL 2464 Colour Code for Paired & Multi-Core Cables

Pair						Multi-Core (Method 1)		Multi-Core (Method 2)			
No.	A Wire	B Wire	No.	A Wire	B Wire	No.	Colour	No.	Colour	No.	Colour
1	Black	Red	16	Green	Yellow	1	Black	1	Black	16	Black-red
2	Black	White	17	Green	Brown	2	White	2	White	17	White-red
3	Black	Green	18	Green	Orange	3	Red	3	Red	18	Orange-red
4	Black	Blue	19	White	Blue	4	Green	4	Green	19	Blue-red
5	Black	Yellow	20	White	Yellow	5	Brown	5	Orange	20	Red-green
6	Black	Brown	21	White	Brown	6	Blue	6	Blue		
7	Black	Orange	22	White	Orange	7	Orange	7	White-black		
8	Red	White	23	Blue	Yellow	8	Yellow	8	Red-black		
9	Red	Green	24	Blue	Brown	9	Purple	9	Green-black		
10	Red	Blue	25	Blue	Orange	10	Grey	10	Orange-black		
11	Red	Yellow				11	Pink	11	Blue-black		
12	Red	Brown				12	Tan	12	Black-white		
13	Red	Orange						13	Red-white		
14	Green	White						14	Green-white		
15	Green	Blue						15	Blue-white		

Table 12 : Colour Code for RS 485 Cables

Pair	A Wire	B Wire
1	White-blue stripe	Blue-white stripe
2	White-orange stripe	Orange-white stripe
3	White-green stripe	Green-white stripe
4	White-brown stripe	Brown-white stripe
5	White-grey stripe	Grey-white stripe