

PART NO. 600000UN

EAP2SP-R (PDF-PAbP) Outdoor Telephone Cable

Detailed Specifications & Technical Data

CROSS SECTION



1 Conductor
2 Insulation
3 Stranding
4 Filling Compound
5 Wrapping
6 Filling Compound
7 Screen
8 Inner Jacket

CABLE CONSTRUCTION

Conductor	: Electrolytic annealed solid copper (CCITT Yellow Book Vol. III-2-G.541 B article, IEC 28 and ASTM B 3).
Insulation	: Color coded solid polyethylene insulation (BS 6234 Type 03 – ASTM D 1248).
Stranding	: Star quads or pairs are assembled into 10 pairs units. Groups having 25, 50 or 100 pairs are stranded together.
Filling Compound	: Cable core is filled with a special jelly filling compound to avoid the water leakage into air spaces.
Wrapping	: A non-hygroscopic and dielectric polyester tape is applied on the cable core longitudinally or helically.
Filling Compound	: Secondary jelly filling is applied between wrapping and screen in order to provide waterproofness.
Screen	: Both sides are coated with copolymer coated flat aluminum tape over cable core longitudinally for screening.
Inner Jacket	: Linear low-density or medium-density, UV resistant black polyethylene inner jacket (ASTM D 1248).
Bedding	: Special tape is applied between inner jacket and armor.
Armor	: Two helically laid galvanized steel tape is applied to increase the mechanical resistance of the cable.
Outer Jacket	: Linear low-density or medium-density, UV resistant black polyethylene outer jacket (ASTM D 1248).

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Designed in Netherlands & Produced Globally.

Prepared By : Steve Smith

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TECHNICAL DATA

	Conductor Diameter						
	0.40 mm	0.50 mm	0.60 mm	0.63 mm	0.65 mm	0.80 mm	0.90 mm
Conductor Resistance Ω/km (20 °C)							
Maximum Average	139,4	89,4	62,1	58	57	35	27,6
Maximum Individual	146,6	93	64,6	60	58	37	28,8
Insulation Resistance MΩ/km (500 VDC)	>10000	>10000	>15000	>15000	>15000	>15000	>15000
Mutual Capacitance nF/km (800 Hz)							
Maximum Average	50	50	45	45	45	45	45
Maximum Individual	56	56	51	51	51	51	51
Capacitance Unbalance pF/500 m							
Between Pairs							
Maximum Average	125	125	60	60	60	60	60
Maximum Individual	350	350	325	325	325	325	325
Between Adjacent Quads							
Maximum Average	125	125	60	60	60	60	60
Maximum Individual	275	275	270	270	270	270	270
To Screen							
Maximum Average	500	500	325	325	325	325	325
Maximum Individual	2000	2000	1300	1300	1300	1300	1300
Dielectric Strength							
V (DC, 1 minute)							
Pair – Pair	1400	1400	2000	2000	2000	2400	3000
Pair – Screen	1400	1400	2000	2000	2000	2400	3000
V (DC, 3 second)							
Pair – Screen	9000	9000	9000	9000	9000	9000	9000

CABLE TYPE DATA

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