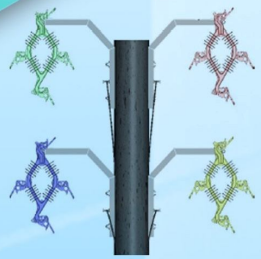
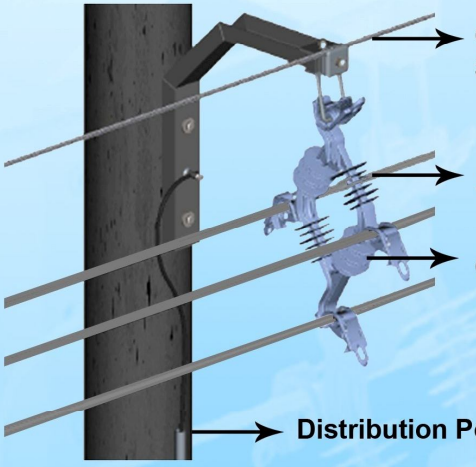
PT SUCACO Tbk.
PT SUPREME CABLE MANUFACTURING & COMMERCE Tbk.

Cert. No. : ID03/00168 Cert. No. : ID05/66527 Cert. No. : ID14/02708

SPACER CABLE

Compact Spacers System





Main Used :

- For aerial power distribution network
- For areas with trees and vegetation
- As alternative AAAC-S and MV-TIC

Network Benefit :

- Improved SAIDI and SAIFI
- Improved circuit density (up to 4 circuits on one pole)
- Protects against phase to phase clashing
- Less outages due to phase to phase and phase to phase flashover
- Usually no fault if a tree is touching the line for several days or even weeks
- Enhanced lightning protection owing to the presence of a messenger wire acting as a shielding wire
- Increased circuit density on new or existing pole lines over COMPACTLIGN™ or open wire type construction

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GENERAL INFORMATION

SUPREME SPACER CABLE

20 kV Distribution Overhead Line

Aluminium round stranded compacted with XLPE insulated HDPE sheathed spacer cables.

Generally to **IEC 60502-2**.

1. **CONDUCTOR**
   Round stranded compacted aluminium wire with water blocking tapes on interstice of wires
2. **CONDUCTOR SCREEN**
   Semiconductive compound
3. **INSULATION**
   Cross-linked polyethylene (XLPE)
   Colour : Natural
4. **SHEATH**
   High density polyethylene
   Provided with UV, tracking and abrasion resistance
   Colour : Grey

Conductor and Dimensional Data

Nominal Conductor Area	Typical Conductor Stranding	Conductor Diameter	Nominal Wall Thickness			Approximate overall diameter
			Conductor Screen	XLPE Insulation	HDPE Sheath	
mm^2	Pcs	mm	mm	mm	mm	mm
35	7 (1+6)	7.0	0.5	3.2	3.2	21.2
50	7 (1+6)	8.2	0.5	3.2	3.2	22.4
70	18 (1+6+11)	9.8	0.5	3.2	3.2	24.0
95	18 (1+6+11)	11.5	0.5	3.2	3.2	25.7
120	18 (1+6+11)	12.9	0.5	3.2	3.2	27.1
150	34 (1+6+11+16)	14.1	0.5	3.2	3.2	28.3
185	34 (1+6+11+16)	16.1	0.5	3.2	3.2	30.3
240	34 (1+6+11+16)	18.0	0.5	3.2	3.2	32.2
300	55 (1+6+11+16+21)	20.6	0.5	3.2	3.2	34.8

Electrical Data

Nominal Conductor Area	Current Rating for 30°C Ambient				Current Rating for 40°C Ambient			
	Still Air	0.5 m/s wind	1 m/s wind	2 m/s wind	Still Air	0.5 m/s wind	1 m/s wind	2 m/s wind
mm^2	A	A	A	A	A	A	A	A
35	151	182	198	214	128	163	178	194
50	181	218	237	257	154	195	214	232
70	226	271	296	322	192	243	266	290
95	276	330	361	393	234	295	324	354
120	319	380	416	454	271	340	374	409
150	364	431	473	516	308	386	425	465
185	420	495	544	595	356	443	489	536
240	498	585	643	704	422	522	577	634
300	575	671	739	809	486	599	662	739

Current ratings based on 90°C conductor temperature and 1000 W/m^2 solar radiation intensity.

Calculation method as used for the ratings in AS/NZS 3675 (Conductors - Covered overhead) and AS/NZS 3008.1.1 Electrical installations - Selection of cables - etc.

Note 1 : The maximum permitted normal operating conductor temperature for AAC or AAAC bare or Covered conductors must be limited to 80°C to avoid loss of strength. Refer AS/NZS 3675.

Note 2 : These cables are designed only for use with approved PLP SPACER systems and as such any loss of strength when operating at 90°C is permitted with these systems.

Note 3 : The conductor temperature for ACSR bare or ACSR Covered conductors can be 90°C because the steel limits the loss of strength on these conductors.

Note 4 : See appendix BB5 of AS/NZS 7000 for explanation regarding loss of strength due to operating temperature.

Note : This is only general information. For other specific requirement, please contact our marketing.

Compact Line Cable Spacer System provided by :

PLP PREFORMED LINE PRODUCTS
The connection you can count on.

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