Description

PSD Cable Distribución Aérea consisting of one, two or three copper or aluminum conductors, with individual black high-density polyethylene (HDPE) thermoplastic insulation, arranged helically around a bare copper or aluminum messenger neutral-conductor.

Application

These PSD Cable Distribución Aérea are used in low voltage overhead electrical power distributio on systems.

As an aerial connection of secondary services.

In permanent or temporary electrical lighting installations in general.

Performance

Maximum operating voltage:600 V.

Maximum operating temperature in the conductor:75°C.

Manufacturing range:

- 8 AWG to 3/0 AWG in copper
- 6 AWG to 3/0 AWG in aluminum

Construction

1.The insulated copper conductors are manufactured in soft temper and the bare conductor in hard or semi-hard temper (CFE). The insulated conductors and the bare aluminum are manufactured with hard-tempered alloy 1350 (H19).

2.Black insulation that makes it resistant to sunlight

3.ACSR bare conductors are manufactured with hard tempered aluminum alloy 1350 (H19) and steel core.

Duplex - AAC Conductor and ACSR Messenger Neutral

Code	AAC conductor phase			Neutral ACSR Messenger			Approx. weight	Current-carrying capacity**
	Cal. AWG or kcmil	Number of Threads	Isolation Sp.	Cal. AWG or kcmil	Number of threads	Breaking stress	PE	Amperes
/	/	/	mm	/	/	kg	kg/km	75℃
Setter	6	1	1.14	6	6/1	540	111	59
Shepherd	6	7	1.14	6	6/1	540	116	59
Retriever	6	7	1.52	6	6/1	540	126	59
Eskimo	4	1	1.14	4	6/1	844	169	78
Terrier	4	7	1.14	4	6/1	844	176	78
Yorkshire	4	7	1.52	4	6/1	844	187	78
Chow	2	7	1.14	2	6/1	1294	270	106
Bull	1/0	19	1.52	1/0	6/1	1989	431	143

Triplex – Phase and Neutral Messenger AAC								
Code	Phase conductor AAC			Neutral Messenger AAC			Approx. Weight	Current carrying capacity**
	Cal. AWG o kcmil	Number of threads	Isolation Sp.	Cal. AWG o kcmil	Number of threads	Effort to breaking off	PE	Amperes
/	/	/	mm	/	/	kg	kg/km	75℃
Haiotis	6	1	1.14	6	7	256	150	59
Patella	6	7	1.14	6	7	256	161	59
Fusus	4	1	1.14	4	7	400	223	78
Oyster	4	7	1.14	4	7	400	237	78
Clam	2	7	1.14	2	7	613	357	106

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Snail	1/0	7	1.52	1/0	7	613	576	143
Murex	1/0	7	1.52	1/0	7	903	576	143
Purpura	1/0	19	1.52	1/0	7	903	570	143
Nassa	2/0	7	1.52	2/0	7	1140	710	165
Trophon	2/0	19	1.52	2/0	7	1140	701	165
Melita	3/0	19	1.52	3/0	19	1503	866	192
Portunus	4/0	19	1.52	4/0	19	1825	1072	224
Nannynose	336.4	19	2.03	336.4	19	2790	1730	*295

Triplex – AAC Phase and ACSR Messenger Neutral								
Code	Phase conductor AAC			Neutral Messenger AAC			Approx. Weight	Current carrying capacity**
	Cal. AWG o kcmil	Number of threads	Isolation Sp.	Cal. AWG o kcmil	Number of threads	Effort to breaking off	PE	Amperes
/	/	/	mm	/	/	kg	kg/km	75℃
Paludina	6	1	1.14	6	6/1	540	111	59
Voluta	6	7	1.14	6	6/1	540	178	59
Bolma	6	7	1.52	6	6/1	540	196	59
Scallop	4	1	1.14	6	6/1	540	218	78
Strombus	4	7	1.14	6	6/1	540	233	78
Whelk	4	1	1.14	4	6/1	844	251	78
Periwinkle	4	7	1.14	4	6/1	844	265	78
Calma	4	7	1.52	4	6/1	844	286	78
Cockle	2	7	1.14	4	6/1	844	351	106
Conch	2	7	1.14	2	6/1	1294	402	106
Gebia	2	7	1.52	4	6/1	844	376	106
Janthina	1/0	7	1.52	2	6/1	1294	566	143
Ranella	1/0	19	1.52	2	6/1	1294	559	143
Neritina	1/0	7	1.52	1/0	6/1	1989	648	143
Cenia	1/0	19	1.52	1/0	6/1	1989	641	143
Cavolinia	2/0	7	1.52	1	6/1	1612	697	165
Clio	2/0	19	1.52	1	6/1	1612	688	165
Runcina	2/0	7	1.52	2/0	6/1	2406	800	165
Triton	2/0	19	1.52	2/0	6/1	2406	792	165
Aega	3/0	19	1.52	1/0	6/1	1989	849	192
Mursia	3/0	19	1.52	3/0	6/1	3005	979	192
Cerapus	4/0	19	1.52	2/0	6/1	2406	1051	224
Zuzara	4/0	19	1.52	4/0	6/1	3791	1215	224
Dosinia	266.8	19	2.03	266.8	18/1	3133	1463	*255
Cowry	336.4	19	2.03	4/0	6/1	3791	1693	*295
Limpet	336.4	19	2.03	336.4	18/1	3950	1806	*295

Quadruplex – AAC Conductor and ACSR Messenger Neutral				
Code	Phase conductor AAC	Neutral Messenger AAC	Approx. Weight	Current carrying capacity**

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	Cal. AWG o kcmil	Number of threads	Isolation Sp.	Cal. AWG o kcmil	Number of threads	Effort to breaking off	PE	Amperes
/	/	/	mm	/	/	kg	kg/km	75℃
Morochuca	6	1	1.14	6	6/1	540	223	59
Chola	6	7	1.14	6	6/1	540	239	59
Morgan	4	1	1.14	4	6/1	844	333	78
Hackney	4	7	1.14	4	6/1	844	354	78
Yearling	2	7	1.14	4	6/1	844	482	106
Palomino	2	7	1.14	2	6/1	1294	533	106
Colt	1/0	19	1.52	2	6/1	1294	769	143
Costena	1/0	19	1.52	1/0	6/1	1989	851	143
Haflinger	2/0	19	1.52	1/0	6/1	1989	991	165
Grullo	2/0	19	1.52	2/0	6/1	2406	1048	165
Claiming	3/0	19	1.52	1/0	6/1	1989	1164	192
Suffolk	3/0	19	1.52	3/0	6/1	3005	1294	192
Toric	4/0	19	1.52	1/0	6/1	1989	1379	224
Stallion	4/0	7	1.52	4/0	6/1	3791	1620	224
Filly	4/0	19	1.52	2/0	6/1	2406	1437	224
Appaloosa	4/0	19	1.52	4/0	6/1	3791	1601	224
Gelding	336.4	19	2.03	4/0	6/1	3791	2319	*295
Bronco	336.4	19	2.03	336.4	18/1	3950	2432	*295

Estimated values

**Based on NEC table (NFPA 70) 310.20. -No more than 3 conductors supported in a messenger neutral and at an ambient temperature of 40°C.

NOTE: Dimensions and weights are subject to manufacturing tolerances.

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