

PRVS SERIES

Extreme Performance Flexible Rubber Vertical Suspension Reeling / Crane Cable 0.6/1kV 90°C



APPLICATIONS:

Vertical Suspension With the interwoven synthetic yarn, this cable is suitable for vertically suspended applications such as crane spreaders, vertical cable reelers, pendant stations and cable tender systems.

Materials and Handling Systems Suitable for use on cable reelers, ship loaders, gantry cranes, stackers and reclaimers, hoists and magnetic cranes.

Mine Sites Suitable for use in surface mining, stone pits and other heavy industrial applications.

Harsh Environments Suitable for magnet cranes in steelworks, smelters and sub-zero environments.

PRODUCT FEATURES:

- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Resistant to environmental factors such as oxidation, ozone and sunlight
- ▶ Very good behaviour to variations of outdoor temperature
- ▶ Good tensile strength, tearing strength and abrasion resistance
- ▶ Interwoven synthetic yarn bonded between inner and outer sheath for extra protection during constant flexing
- ▶ Heat, oil and chemical resistant (See Technical Section)

CONSTRUCTION:

Conductor Annealed tinned copper stranded extreme flexibility (Class 5 & 6).

Insulation Special compound based on high-quality EPR.

Central Strainer (if any) made of aramidic yarns. To be used as support element.

Inner Sheath New special PCP compound.

Anti-torsion Braid Reinforced braid of polyester threads, in a vulcanized bond between the sheaths.

Outer Sheath Abrasion and tear-resistant special rubber compound based on PCP.

CHARACTERISTICS:

Operating Temperature Range Fixed -40°C to 90°C / Flexing -25°C to 90°C.

Maximum Conductor Temperature 90°C.

Rated Voltage 0.6/1kV.

Sheath Colour Black or Yellow.

Standard Core Colours

4 Core – Blue, Brown, Black, Green/Yellow.

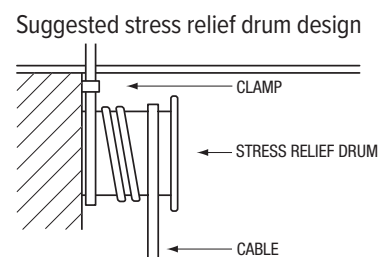
Multi Core – Black (numbered) + Green/Yellow.

Relevant Standards DIN VDE0250, DIN VDE0298-4, DIN VDE0298-3, IEC 60332-1, **CE** Directive 2006/95/EC, **RoHS** Compliant.

See over for full product table ▶

SUPPORT FOR VERTICALLY SUSPENDED CABLES:

The anchoring of cables is best achieved with a stress relief drum. The open ended construction facilitates installation and replacement while affording better stress relief and jacket protection than cable grips. At least 2½ cable turns should be wound around the drum. Refer to the minimum Bending Radii data for each cable type to determine the stress relief drum diameter.



Festoons	Cable Winding Reels		Cable Tender Systems	Guide Pulley Systems	Pendant Push Buttons	Cable Carrier Chains	Basket
	Cable laid in ground or in conduit	Vert. Cable					
			X	X	X		X


Main Application

Suitable

X Not Suitable - Ask regarding other cable types available

Firstflex has taken every precaution to ensure accurate information in this catalogue, but accept no liability for any errors or omissions. Firstflex reserves the right to modify specifications at any time.

PRVS SERIES continued

Code	No. of Cores x Size (mm ²)	Approx. Stranding No. of wires x mm	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)	Nominal Amps un-enclosed protected from sun @ 30°C fixed application		3 Phase Volt Drop @50Hz / MAX. Conductor Temp: 90°C (Mv/Am)
					Touching		
PRVS04/1.5	4 x 1.5	30/0.25	13.8	240	21		30.000
PRVS05/1.5	5 x 1.5	30/0.25	14.6	280	21		30.000
PRVS07/1.5	7 x 1.5	30/0.25	17.2	385	15		30.000
PRVS12/1.5	12 x 1.5	30/0.25	23.4	710	15		30.000
PRVS18/1.5	18 x 1.5	30/0.25	23.3	760	15		30.000
PRVS24/1.5	24 x 1.5	30/0.25	26.8	710	15		30.000
PRVS30/1.5	30 x 1.5	30/0.25	29.6	1220	15		30.000
PRVS36/1.5	36 x 1.5	30/0.25	29.5	1260	15		30.000
PRVS44/1.5	44 x 1.5	30/0.25	32.5	1530	15		30.000
PRVS56/1.5	56 x 1.5	30/0.25	37.9	2050	15		30.000
PRVS03/2.5	3 x 2.5	50/0.25	14.3	280	33		16.400
PRVS04/2.5	4 x 2.5	50/0.25	14.8	305	29		16.400
PRVS05/2.5	5 x 2.5	50/0.25	15.8	355	29		16.400
PRVS07/2.5	7 x 2.5	50/0.25	18.6	510	20		16.400
PRVS12/2.5	12 x 2.5	50/0.25	25.4	920	20		16.400
PRVS18/2.5	18 x 2.5	50/0.25	25.3	1005	20		16.400
PRVS24/2.5	24 x 2.5	50/0.25	29.2	1320	20		16.400
PRVS30/2.5	30 x 2.5	50/0.25	32.4	1660	20		16.400
PRVS36/2.5	36 x 2.5	50/0.25	32.3	1720	20		16.400
PRVS44/2.5	44 x 2.5	50/0.25	37.1	2230	20		16.400
PRVS56/2.5	56 x 2.5	50/0.25	43.1	2940	20		16.400
PRVS04/4.0	4 x 4.0	56/0.30	18	455	37		10.200
PRVS04/6.0	4 x 6.0	84/0.30	19.4	720	47		6.800
PRVS04/10	4 x 10	80/0.40	23.6	1200	67		4.050
PRVS04/16	4 x 16	128/0.40	26.7	1920	89		2.550
PRVS04/25	4 x 25	200/0.40	31.5	2000	119		1.160
PRVS04/35	3 x 35 + 3 x 16	280/0.40 E 128/0.40	31.5	2160	149		1.170
PRVS04/50	3 x 50 + 3 x 25	400/0.40 E 200/0.40	37.4	2850	187		0.868
PRVS04/70	3 x 70 + 3 x 35	356/0.50 E 280/0.40	42.7	3920	235		0.609
PRVS04/95	3 x 95 + 3 x 50	485/0.50 E 400/0.40	47.3	5020	282		0.450
PRVS04/120	3 x 120 + 3 x 70	614/0.50 E 356/0.50	55.0	6630	333		0.366
PRVS04/150	3 x 150 + 3 x 70	765/0.50 E 356/0.50	57.9	7690	383		0.307
PRVS04/185	3 x 185 + 3 x 95	944/0.50 E 485/0.50	62.9	9310	436		0.269
PRVS04/240	3 x 240 + 3 x 120	1225/0.50 E 614/0.50	71.4	12200	519		0.227
PRVS05/4.0	5 x 4.0	56/0.31	19.4	430	37		10.200
PRVS05/6.0	5 x 6.0	84/0.31	21.0	690	47		6.800
PRVS05/10	5 x 10	80/0.41	25.4	1080	67		4.050
PRVS05/16	5 x 16	128/0.41	29.1	1500	89		2.550