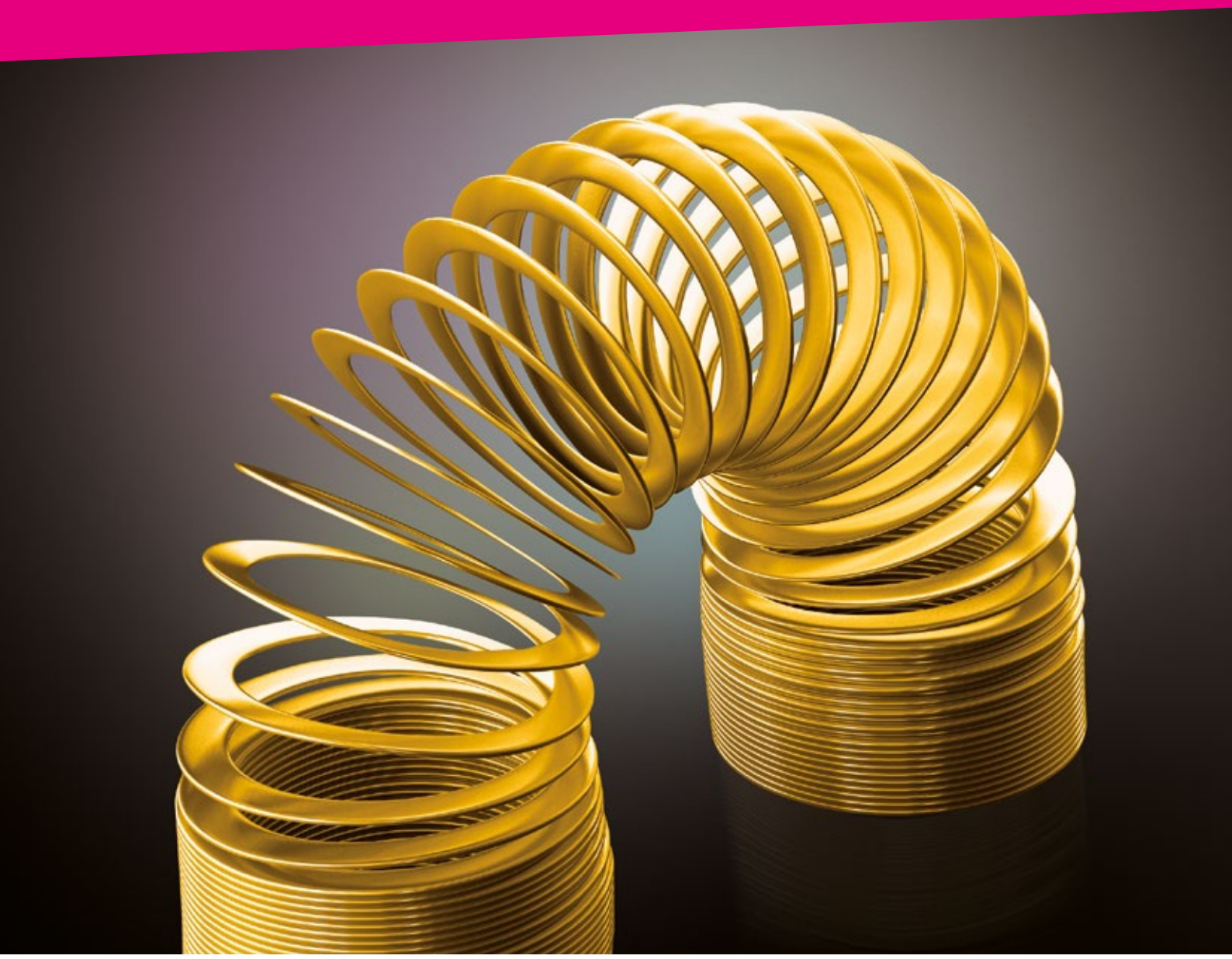
PRYSMIAN

Taking Flexibility to The Extreme.

Introducing Prysmian's Flextreme cable.



A brand of the

Prysmian Group

Experience a significant ease of installation.

Engineered with added flexibility, Flextreme is made up of flexible cross-linked polymer. A flexible cable solution with a fine drawn conductor by AS/NZS 1125 standards. Flexible, the Flextreme energy cable meets the high demands placed on cable installations in data centres. More flexible than ever before, Flextreme offers an ease of handling especially where there is a tight bending radius space.

FEATURES OF FLEXTREME

Extreme flexibility

Made up of engineered, flexible cross-linked polymer, the Flextreme is an extremely flexible cable solution with a fine drawn conductor by AS/NZS 1125 standards.

Increase current capacity

Superior temerpature range – increase the operating temperature from 90 °C to 110 °C.

Superior cable management

- Product availability
- Shorter lead times
- Cables can be cut to length
- Reactive local support

Long-life performance

- Australian designed and made
- Cables made from premium concepts
- Superior performance

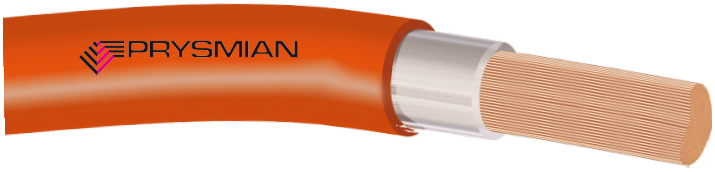
Safety – performance that ensures peace of mind

High flexibility ensures easier handling – reducing the risk of workplace injury and fatigue.

Quality – superior manufacturing and support

- Independently certified by a NATA accredited facility
- Exceeds Australian standards
- Expert quality control
- Quality technical after-sales support and service.

FLEXIBLE CABLES 0.6/1 kV 110 °C



Approvals

Suitable for fixed applications only in accordance with AS/NZS 5000.1

Behaviour in flame and fire

Flame propagation - AS/NZS IEC 60332-1

Temperature range

Maximum operating temperature: +110 °C
Minimum operating temperature: -40 °C

Minimum bending radius*

Installed cables: 4D
During installation: 6D

Resistance to

Chemical exposure: Occasional
Mechanical impact: Light
Water exposure: Occasional condensation
Solar radiation and weather exposure: Frequent

Cable design

Conductor:
Super flexible annealed copper conductor

Insulation:
Flexible cross-linked polymer, halogen free, environmental friendly

Sheath:
Thermoplastic UV stabilised rubber, lead-free, extra flexible, abrasion resistant, flame retardant, recyclable

Installation conditions

In free air
In conduit
In trench
In ground with protection
In duct

*Values given are for general guidance. Bending radius can be discussed for specific project.

SINGLE CORE

Core configu-ration	Phase conductor			Earth conductor			Overall cable diameter (nominal) (mm)	Minimum bending radius		Weight of cable (nominal) (kg/100 m)
	Cross sectional area (mm^2)	Diameter (nominal) (mm)	Insulation thickness (nominal) (mm)	Cross sectional area (mm^2)	Diameter (nominal) (mm)	Insulation thickness (nominal) (mm)		During installation (mm)	Installed (mm)	
1	10	4.2	0.7	–	–	–	8.6	55	35	14
1	16	5.3	0.7	–	–	–	9.7	60	40	20
1	25	6.8	0.9	–	–	–	11.6	70	50	29
1	35	7.9	0.9	–	–	–	12.7	80	55	39
1	50	9.4	1.0	–	–	–	14.4	90	60	53
1	70	11.3	1.1	–	–	–	16.5	100	70	73
1	95	13.0	1.1	–	–	–	18.4	110	75	95
1	120	14.7	1.2	–	–	–	20.3	125	85	119
1	150	16.5	1.4	–	–	–	22.7	140	95	148
1	185	18.2	1.6	–	–	–	24.8	150	100	178
1	240	21.0	1.7	–	–	–	28.0	170	115	232
1	300	23.5	1.8	–	–	–	30.9	190	125	289
1	400	27.0	2.0	–	–	–	35.0	210	140	377
1	500	30.5	2.2	–	–	–	39.1	235	160	475
1	630	35.2	2.4	–	–	–	44.6	270	180	630

Current ratings												
Nominal Conductor area (mm^2)	Unenclosed				Enclosed	Thermal Insulation		Buried direct	Underground wiring enclosure		Three phase voltage drop (@ 50Hz & 110 °C) mV/A.m	
	Spaced	Spaced from surface	Touching	Exposed to sun	Metallic wiring enclosure in air	Partially surrounded by thermal insulation	Completely surrounded by thermal insulation					
												
10	99	85	80	67	70	57	40	77	76	88	4.48	4.48
16	130	112	105	88	91	74	53	130	97	115	2.84	2.85
25	173	149	139	116	121	100	72	168	125	148	1.84	1.84
35	214	184	172	143	148	121	88	201	151	176	1.31	1.31
50	270	233	217	179	190	146	–	237	188	212	0.921	0.926
70	340	292	273	224	234	187	–	291	229	259	0.658	0.665
95	410	353	329	269	277	228	–	348	268	315	0.509	0.518
120	487	418	390	317	331	269	–	396	316	357	0.408	0.419
150	562	482	450	365	378	306	–	445	357	400	0.340	0.353
185	644	553	516	417	438	359	–	503	404	461	0.293	0.307
240	775	665	620	499	538	439	–	583	481	533	0.242	0.259
300	895	766	714	572	612	501	–	657	542	617	0.213	0.232
400	1079	918	855	682	757	575	–	746	648	700	0.187	0.208
500	1260	1064	990	786	864	692	–	843	729	815	0.172	0.194
630	1493	1240	1154	913	993	787	–	947	828	920	0.159	0.182

Linking the future

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