



Type 450 3.3 to 33KV

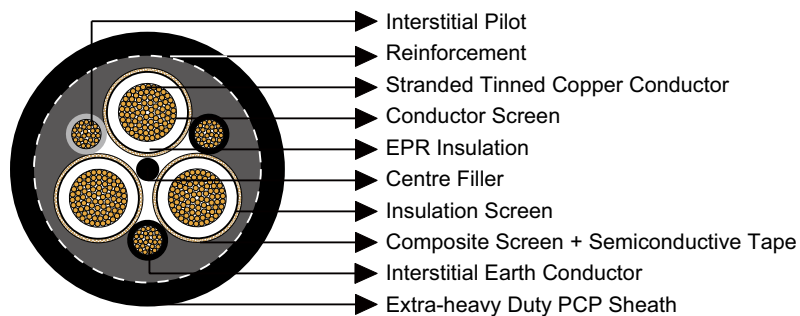
» Applications

These cables are suitable for supply of power to a wide range of applications, from dragline cable to slow reeling applications, where copper screened cable is required but light weight and smaller dimensions are also desired.

» Standards

- AS/NZS 2802:2000
- AS/NZS 1125
- AS/NZS 3808
- AS/NZS 5000.1

» Construction



3×Conductors: Flexible stranded tinned annealed copper conductor.

Conductor Screen: Semiconductive compound (for cables having a voltage rating of 3.3/3.3kV and above).

Insulation: EPR.

Insulation Screen: Semiconductive elastomer.

Composite Screen: Tinned annealed copper braiding interwove with polyester yarn, covered with semiconductive tape.

Filler: Elastomer centre filler.

2×Interstitial Earth Conductor: CSP covered flexible stranded tinned copper conductor.

1×Interstitial Pilot: EPR covered flexible stranded tinned copper conductor.



AS/NZS 2802:2000 Reeling & Trailing Cables

Textile Reinforcement: Open-weave braid reinforcement.

Sheath: Extra-heavy duty PCP sheath. Extra-heavy duty CPE/CSP sheath can be offered upon request.

» Dimensions and Weight

Nominal Conductor Area	Strand Size	Insulation Thickness	Core Screen		Pilot/Earth Conductor		Thickness of Sheath	Nominal Overall Diameter	Nominal Weight
			Strand Size	Area of Screen	Strand Size	Thickness of Covering			
mm ²	No/mm	mm	No/mm	mm ²	No/mm	mm	mm	mm	kg/100m
Type 450.3 Class1									
16	126/0.40	2.2	128/0.25	6.3	120/0.30	1.4	4.5	42.8	266
25	209/0.40	2.2	118/0.30	8.3	120/0.30	1.4	4.8	46.9	338
35	285/0.40	2.2	127/0.30	9.0	120/0.30	1.4	5.1	50.3	392
50	380/0.40	2.4	141/0.30	10.0	183/0.30	1.4	5.6	55.5	487
70	203/0.67	2.4	117/0.40	14.7	54/0.67	1.4	6.0	61.1	637
95	259/0.67	2.4	123/0.40	15.5	70/0.67	1.6	6.3	64.3	734
120	336/0.67	2.4	135/0.40	17.0	84/0.67	1.6	6.4	69.0	867
150	427/0.67	2.4	144/0.40	18.1	112/0.67	1.6	6.6	73.3	1022
185	518/0.67	2.4	144/0.40	18.1	132/0.67	1.6	6.7	78.1	1175
240	672/0.67	2.4	136/0.50	26.7	168/0.67	1.6	6.9	84.5	1440
300	854/0.67	2.4	144/0.50	28.3	228/0.67	1.6	7.0	90.4	1741
Type 450.6 Class1									
16	126/0.40	3.0	118/0.30	8.3	120/0.30	1.4	5.0	47.6	317
25	209/0.40	3.0	129/0.30	9.1	120/0.30	1.6	5.2	51.2	382
35	285/0.40	3.0	139/0.30	9.8	120/0.30	1.6	5.5	54.7	443
50	380/0.40	3.0	149/0.30	10.5	177/0.30	1.6	5.9	58.8	534
70	203/0.67	3.0	123/0.40	15.5	54/0.67	1.6	6.3	64.3	682
95	259/0.67	3.0	130/0.40	16.3	70/0.67	1.8	6.4	67.1	771
120	336/0.67	3.0	141/0.40	17.7	84/0.67	1.8	6.5	71.9	912
150	427/0.67	3.0	144/0.40	18.1	112/0.67	1.8	6.6	76.0	1073
185	518/0.67	3.0	144/0.40	18.1	132/0.67	1.8	6.8	80.9	1222
240	672/0.67	3.0	141/0.50	27.7	168/0.67	1.8	7.0	87.4	1502
300	854/0.67	3.0	144/0.50	28.3	228/0.67	1.8	7.1	93.2	1790
Type 450.11 Class1									
25	209/0.40	5.0	120/0.40	15.1	120/0.30	2.0	6.3	62.8	542



Nominal Conductor Area	Strand Size	Insulation Thickness	Core Screen		Pilot/Earth Conductor		Thickness of Sheath	Nominal Overall Diameter	Nominal Weight
			Strand Size	Area of Screen	Strand Size	Thickness of Covering			
mm ²	No/mm	mm	No/mm	mm ²	No/mm	mm	mm	mm	kg/100m
35	285/0.40	5.0	127/0.40	16.0	120/0.30	2.0	6.4	65.8	601
50	380/0.40	5.0	135/0.40	17.0	183/0.30	2.0	6.5	69.3	692
70	203/0.67	5.0	144/0.40	18.1	54/0.67	2.0	6.6	73.8	826
95	259/0.67	5.0	144/0.40	18.1	70/0.67	2.2	6.7	76.6	926
120	336/0.67	5.0	144/0.40	18.1	84/0.67	2.2	6.9	81.6	1082
150	427/0.67	5.0	139/0.50	27.3	112/0.67	2.2	7.0	86.1	1263
185	518/0.67	5.0	144/0.50	28.3	132/0.67	2.2	7.1	90.8	1433
240	627/0.67	5.0	144/0.50	28.3	168/0.67	2.2	7.3	96.8	1690
300	854/0.67	5.0	144/0.50	28.3	228/0.67	2.2	7.4	102.7	2000
Type 450.22 Class1									
35	285/0.40	7.6	144/0.40	18.1	120/0.30	2.5	6.8	78.4	805
50	380/0.40	7.6	144/0.40	18.1	183/0.30	2.5	6.9	81.8	900
70	203/0.67	7.6	140/0.50	27.5	54/0.67	2.5	7.0	86.8	1070
95	259/0.67	7.6	144/0.50	28.3	70/0.67	2.5	7.2	89.8	1180
120	336/0.67	7.6	144/0.50	28.3	84/0.67	2.5	7.3	94.5	1350
150	427/0.67	7.6	144/0.50	28.3	112/0.67	2.5	7.4	98.6	1520
185	518/0.67	7.6	144/0.50	28.3	132/0.67	2.5	7.5	103.4	1700
240	627/0.67	7.6	144/0.50	28.3	168/0.67	2.5	7.7	109.4	1980
300	854/0.67	7.6	144/0.50	28.3	228/0.67	2.5	7.9	115.4	2310
Type 450.33 Class1									
50	380/0.40	10.5	144/0.50	28.3	183/0.30	2.5	7.4	96.9	1222
70	203/0.67	10.5	144/0.50	28.3	54/0.67	2.5	7.5	101.4	1385
95	259/0.67	10.5	144/0.50	28.3	70/0.67	2.5	7.7	104.4	1505
120	336/0.67	10.5	144/0.50	28.3	84/0.67	2.5	7.8	109.2	1680
185	518/0.67	10.5	144/0.50	28.3	132/0.67	2.5	8.0	118.0	2060
240	627/0.67	10.5	144/0.50	28.3	168/0.67	2.5	8.2	124.0	2360
300	854/0.67	10.5	144/0.50	28.3	228/0.67	2.5	8.4	130.1	2710