

Enhanced Type 441 (SCR) Mould-cured CPE Sheath • 3.3 – 22kV

Conductors (3)
Flexible tinned copper

Earth Conductors (3)
Semiconductive elastomer covered flexible tinned copper

Insulation Screen
Semiconductive elastomer

Braid Shield
Per type 450

Tape
Semiconducting

Core Assembly Screen
Semiconductive elastomer

Sheath
Reinforced mould cured heavy duty thermosetting elastomer sheath
Cable identification via permanent marking

Central Pilot Core
EPR covered extensible tinned copper

Cradle Separator
Semiconductive elastomer

Insulation
Ethylene-propylene rubber (EPR) R-EP-90

Conductive Screen
Extruded semi-conductive layer

Summary

Fully compliant Type 441 construction to AS/NZS 2802 offered in 3.3kV-22kV with the added earthing protection of a braided tinned copper shielding system which is fully compliant to the Australian Standard Type 450 cable.

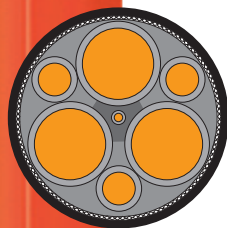
- Provides additional earthing protection in high fault current situations
- Provides additional mechanical protection with the additional metallic shielding
- Class 1 insulation on 3.3kV cables and above

Standard cable sheath is black.

See pages 17-18 for other available colours and striping options.



All materials in AmerCable Australia's mining cables are lead free.



Type 441.3 (3.3kV)

Other sizes and voltages available upon request

Part No. 35-018-	Power Conductor				Earth Conductor		Sheath Thickness Including Semi-Conductive Core Screen (mm)	Nominal Overall Diameter (mm)	Approx. Mass (kg/100m)
	Nominal Area (mm ²)	Strand Size (#/mm)	Insulation Thickness (mm)	Nominal Diameter Over Insulation (mm)	Strand Size (min#/mm)	Semi-Conductive Covering Thickness (mm)			
016	16	133/0.40	2.2	13.8	105/0.25	1.1	4.6	46.4	282
025	25	259/0.36	2.2	15.3	105/0.25	1.1	4.9	50.1	343
035	35	285/0.40	2.2	16.4	105/0.25	1.1	5.2	53.0	394
050	50	399/0.40	2.4	18.3	105/0.25	1.1	5.7	58.4	487
070	70	342/0.51	2.4	20.1	108/0.40	1.1	6.0	63.3	617
095	95	456/0.51	2.4	21.8	91/0.51	1.3	6.3	67.7	733
120	120	627/0.51	2.4	24.3	112/0.51	1.3	6.5	73.5	906
150	150	777/0.51	2.4	26.8	133/0.51	1.3	6.6	78.9	1089

Enhanced Type 441 (SCR) Mould-cured CPE Sheath • 6.6 – 22kV

Type 441.6 (6.6/6.6kV)

Other sizes and voltages available upon request

Part No. 35-019-	Power Conductor				Earth Conductor		Sheath Thickness Including Semi-Conductive Core Screen (mm)	Nominal Overall Diameter (mm)	Approx. Mass (kg/100m)
	Nominal Area (mm ²)	Strand Size (#/mm)	Insulation Thickness (mm)	Nominal Diameter Over Insulation (mm)	Strand Size (min#/mm)	Semi-Conductive Covering Thickness (mm)			
016	16	133/0.40	3.00	15.4	105/0.25	1.1	5.0	50.8	329
025	25	259/0.36	3.00	16.9	105/0.25	1.1	5.3	54.5	385
035	35	285/ 0.40	3.00	17.9	105/0.25	1.1	5.6	57.3	444
050	50	399/0.40	3.00	19.4	161/0.25	1.3	6.0	61.8	544
070	70	342/0.51	3.00	21.3	108/0.40	1.3	6.3	66.7	666
095	95	456/0.51	3.00	23.1	91/0.51	1.3	6.4	70.7	796
120	120	627/0.51	3.00	25.5	112/0.51	1.3	6.6	76.6	962
150	150	777/0.51	3.00	27.4	133/0.51	1.3	6.7	80.5	1070

Type 441.11 (11/11kV)

Other sizes and voltages available upon request

Part No. 35-020-	Power Conductor				Earth Conductor		Sheath Thickness Including Semi-Conductive Core Screen (mm)	Nominal Overall Diameter (mm)	Approx. Mass (kg/100m)
	Nominal Area (mm ²)	Strand Size (#/mm)	Insulation Thickness (mm)	Nominal Diameter Over Insulation (mm)	Strand Size (min#/mm)	Semi-Conductive Covering Thickness (mm)			
025	25	259/0.36	5.0	20.9	105/0.25	1.3	6.3	65.5	538
035	35	285/ 0.40	5.0	22.0	105/0.25	1.5	6.4	69.6	618
050	50	399/0.40	5.0	23.6	161/0.25	1.5	6.5	71.9	683
070	70	342/0.51	5.0	25.5	108/0.40	1.5	6.6	76.0	809
095	95	456/0.51	5.0	27.2	91/0.51	1.5	6.8	79.8	924
120	120	627/0.51	5.0	29.7	112/0.51	1.5	6.9	85.8	1107
150	150	777/0.51	5.0	31.5	133/0.51	1.5	7.0	90.3	1281
185	185	925/0.51	5.0	33.2	175/0.51	1.5	7.1	94.2	1441
240	240	925/0.51	5.0	36.3	196/0.51	1.5	7.3	101.3	1730
300	300	1480/0.51	5.0	38.4	252/0.51	1.9	7.4	109.3	2059

Type 441.22 (22/22kV)

Other sizes and voltages available upon request

Part No. 35-021	Power Conductor				Earth Conductor		Sheath Thickness Including Semi-Conductive Core Screen (mm)	Nominal Overall Diameter (mm)	Approx. Mass (kg/100m)
	Nominal Area (mm ²)	Strand Size (#/mm)	Insulation Thickness (mm)	Nominal Diameter Over Insulation (mm)	Strand Size (min#/mm)	Semi-Conductive Covering Thickness (mm)			
035	35	285/ 0.40	7.6	27.4	105/0.25	1.9	6.8	80.7	748
050	50	399/0.40	7.6	29.0	161/0.25	1.9	7.0	84.4	881
070	70	342/0.51	7.6	28.5	108/0.40	2.0	7.1	88.7	1034
095	95	456/0.51	7.6	32.6	91/0.51	1.9	7.2	93.3	1189
120	120	627/0.51	7.6	34.9	112/0.51	1.9	7.3	98.9	1370
150	150	777/0.51	7.6	37.0	133/0.51	1.9	7.4	103.1	1532
185	185	925/0.51	7.6	38.5	175/0.51	2.0	7.5	106.4	1727
240	240	925/0.51	7.6	41.7	196/0.51	2.2	7.7	113.9	2028