

# Type 440 Flexible Copper Screened Mining Cable With Three Pilot Core Interstitial



Eland Product Group:

## APPLICATION

For power supply to machinery and equipment. For use where three pilot cores are required. Larger cables for power supply to draglines, shovels and drills. Smaller sizes used for drills, held hand tools and equipment. Other industrial applications

## CHARACTERISTICS

### Voltage Rating

1.1kV to 22kV

### Temperature Rating

-25°C to +90°C

## CONSTRUCTION

### Conductor

Tinned annealed copper wires

### Separator/Screen

1.1kV: Paper separator

For other nominal voltages semi-conductive tape+ thermosetting compound over conductors

### Insulation

Ethylene propylene rubber type R-EP-90

### Insulation Screen

1.1kV: Synthetic tape

From 3.3kV: Semi-conductive thermosetting compound + tinned copper/polyamide braid

### Cable Assembly

Three screened power and three pilot cores laid up with right hand direction on cradle separator

### Sheath

Thermosetting compound HD-85-PCP - extra heavy duty, oil resistance and flame retardant

### Sheath Colour

● Black

## STANDARDS

AS/NZS 2802: 2000, AS/NZS 1125:2001, AS/NZS 2802:2003, Water resistant and flame retardant, UV, sunlight, ozone and oil resistant

## ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



## REGULATORY COMPLIANCE

This cable meets the requirements of the RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.





## DIMENSIONS

ELAND PART NO.	NOMINAL CONDUCTOR AREA mm <sup>2</sup>	THICKNESS OF INSULATION mm <sup>2</sup>	NUMBER AND NOMINAL DIAMETER OF WIRES n x mm	NOMINAL DIAMETER OVER INSULATION mm	CORE SCREEN SIZE mm	AREA OF SCREEN mm <sup>2</sup>	PILOT COND. STRAND/ SIZE No/mm	THICKNESS EPR COVERING mm	NOMINAL THICKNESS OF SHEATH mm	NOMINAL DIAMETER mm	NOMINAL WEIGHT kg/100m
Type 440.1 - Class 2											
6	1.5	84x0.3	6.5	7/0.25	7.2	18/0.3	1	3.8	30	135	
10	1.5	77x0.4	7.7	7/0.25	8.6	27/0.3	1	3.8	32.6	166	
16	1.6	126x0.4	9	7/0.25	9.6	42/0.3	1	4	35.8	204	
25	1.6	209x0.4	10.5	7/0.25	11.3	66/0.3	1.2	4.3	39.7	269	
35	1.6	285x0.4	12.1	7/0.25	12.4	90/0.3	1.2	4.6	43.8	324	
50	1.7	380x0.4	13.8	7/0.25	14.4	120/0.3	1.2	5	48.4	403	
70	1.8	361x0.5	16.1	7/0.25	16.5	110/0.4	1.2	5.4	54	539	
95	2	475x0.5	17.7	7/0.30	21.8	110/0.4	1.2	6	59.4	659	
120	2.1	608x0.5	20	7/0.30	24.7	135/0.4	1.4	6.4	65.2	802	
150	2.3	740x0.5	22.2	7/0.40	36.9	152/0.4	1.4	6.9	72.2	1018	
185	2.5	925x0.5	24.7	7/0.40	40.5	177/0.4	1.4	7.4	78.8	1198	
240	2.8	1221x0.5	27.9	7/0.50	57.7	216/0.4	1.6	8.2	88.7	1549	
Type 440.3 - Class 2											
16	3	126x0.4	12.5	7/0.25	13.1	42/0.3	1.4	5.3	46.1	304	
25	3	209x0.4	14	7/0.25	14.8	66/0.3	1.4	5.6	50	379	
35	3	285x0.4	15.3	7/0.25	15.8	90/0.3	1.4	5.9	53.4	446	
50	3	380x0.4	16.8	7/0.25	17.2	120/0.3	1.4	6.3	57.5	524	
70	3	361x0.5	20	7/0.25	18.6	110/0.4	1.4	6.6	62.4	659	
95	3	475x0.5	22.1	7/0.25	20.3	110/0.4	1.6	7.1	66.2	754	
120	3	608x0.5	23.9	7/0.30	27.2	135/0.4	1.6	7.4	71.9	914	
150	3	740x0.5	26	7/0.40	39.6	152/0.4	1.6	7.8	77.9	1119	
185	3	925x0.5	28.6	7/0.40	42.2	177/0.4	1.6	8.2	83.4	1289	
240	3	1221x0.5	31.2	7/0.40	46.6	216/0.4	1.6	8.8	90.2	1559	
Type 440.6 - Class 2											
16	5	126x0.4	16.5	7/0.25	17.2	42/0.3	1.4	6.4	57.3	444	
25	5	209x0.4	18	7/0.25	18.6	66/0.3	1.6	6.7	61.2	523	
35	5	285x0.4	19.3	7/0.25	18.6	90/0.3	1.6	7	64.6	599	
50	5	380x0.4	20.8	7/0.25	21.3	120/0.3	1.8	7.3	68.5	689	
70	5	361x0.5	22.8	7/0.25	23.4	110/0.4	1.8	7.7	73.7	834	
95	5	475x0.5	24	7/0.30	29.2	110/0.4	1.8	8.1	77.8	964	
120	5	608x0.5	26.1	7/0.30	31.7	135/0.4	1.8	8.5	83.1	1119	
150	5	740x0.5	27.9	7/0.40	45.7	152/0.4	1.8	8.9	89.1	1349	
185	5	925x0.5	30	7/0.40	48.4	177/0.4	1.8	9.3	94.5	1529	
Type 440.11 - Class 2											
25	7.6	209x0.4	23.4	7/0.25	23.7	66/0.3	2	8.1	75.6	759	
35	7.6	285x0.4	24.7	7/0.30	30.2	90/0.3	2	8.4	79.6	869	
50	7.6	380x0.4	26.2	7/0.30	31.7	120/0.3	2	8.7	83.5	974	
70	7.6	361x0.5	28.2	7/0.30	34.1	110/0.4	2	9.1	88.7	1139	
95	7.6	475x0.5	29.4	7/0.40	47.5	110/0.4	2.2	9.6	93.6	1319	
120	7.6	608x0.5	31.5	7/0.40	51	135x0.4	2.2	9.9	98.7	1489	
150	7.6	740x0.5	33.3	7/0.40	53.7	152/0.4	2.2	10.3	103.4	1679	
Type 440.22 - Class 2											
35	10.5	285x0.4	32.6	7/0.40	55.4	90/0.3	2.5	10	104.9	1429	
50	10.5	380x0.4	34.1	7/0.40	58.1	120/0.3	2.5	10.3	108.8	1549	

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.