Type 455 Flexible Screened Mining Cable with two earth and one pilot core

Eland Product Group: C3M

APPLICATION

Particulary suited to stacker-reclaimer applications. Suitable for reeling and trailing applications. For use where two earth and one pilot cores are required. Other industrial applications

CHARACTERISTICS

Voltage Rating
Type 455.3 - 3.3kV
Type 455.6 - 6.6kV
Type 455.11 - 11kV
Type 455.22 - 22kV
Type 455.33 - 33kV

Temperature Rating
-25°C to +90°C

CONSTRUCTION

Conductor
Tinned annealed copper wires

Conductor Screen
Semi-conductive tape + thermosetting compound

Insulation
EPR (Ethylene Propylene Rubber) type XR-EP-90

Insulation Screen
Semi-conductive thermosetting compound

Cable Assembly
Three screened power, two earth and one pilot core laid up with right hand direction on the rubber centre filler

Inner Sheath
Semi-conductive thermosetting compound

Armour
Polyamide yarns

Outer Sheath
HD-CSP (Heavy-duty Chlorosulphonated Polyethylene) - extra heavy duty, oil resistant and flame retardant

Sheath Colour
● Black

STANDARDS

AS/NZS 2802: 2000, AS/NZS 1125:2001, AS/NZS 2802:2003,
Water resistant
Flame retardant
UV, sunlight, ozone resistant
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.

UKAS ISO/IEC 17025 Testing laboratory accreditation 8578
bsi. ISO 9001 Quality Management FS 672069
ISO 14001 Environmental Management EMS 672067
ISO 45001 Occupational Health and Safety Management OHS 672066

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™.

bsi. RoHS Trusted KITEMARK™ KM 634267
RoHS

DIMENSIONS

ELAND PART NO.	NO. CORES	NOMINAL CONDUCTOR AREA mm²	NUMBER AND NOMINAL DIAMETER OF WIRES n x mm	THICKNESS OF INSULATION mm²	NOMINAL DIAMETER OVER INSULATION mm	PILOT COND. STRAND/ SIZE No/mm	THICKNESS OF EARTH COVERING mm	NOMINAL THICKNESS OF SHEATH mm	NOMINAL DIAMETER mm	NOMINAL WEIGHT kg/100m
Type 455.3-Class 1										
C3M0303016BK	3+2+1	16	126x0.4	2.2	12.4	120/0.3	1.4	4.2	39.5	224
C3M0303025BK	3+2+1	25	209x0.4	2.2	14	120/0.3	1.4	4.5	43.4	281
C3M0303035BK	3+2+1	35	285x0.4	2.2	15.2	120/0.3	1.4	4.8	46.8	336
C3M0303050BK	3+2+1	50	380x0.4	2.4	17.1	180/0.3	1.4	5.3	52	424
C3M0303070BK	3+2+1	70	361x0.5	2.4	19.1	152/0.4	1.4	5.7	57	556
C3M0303095BK	3+2+1	95	475x0.5	2.4	20.3	196x0.4	1.6	6.1	60.5	646
C3M0303120BK	3+2+1	120	608x0.5	2.4	22.4	236/0.4	1.6	6.4	65.6	786
C3M0303150BK	3+2+1	150	740x0.5	2.4	24.2	314/0.4	1.6	6.5	69.6	931
C3M0303185BK	3+2+1	185	925x0.5	2.4	26.3	237/0.4	1.6	6.6	74.5	1072
C3M0303240BK	3+2+1	240	1221x0.5	2.4	28.9	302/0.5	1.6	6.8	80.4	1310
C3M0303240BK	3+2+1	300	1525x0.5	2.4	31.5	409/0.5	1.6	6.9	86.2	1602
Type 455.6-Class 1										
C3M0603016BK	3+2+1	16	126x0.4	3	14	120/0.3	1.4	4.7	44	266
C3M0601025BK	3+2+1	25	209x0.4	3	15.5	120/0.3	1.6	5	47.9	332
C3M0603035BK	3+2+1	35	285x0.4	3	16.8	120/0.3	1.6	5.3	51.4	387
C3M0603050BK	3+2+1	50	380x0.4	3	18.3	177/0.3	1.6	5.6	55.1	466
C3M0603070BK	3+2+1	70	361x0.5	3	20.3	152/0.4	1.6	6	60.2	597
C3M0603095BK	3+2+1	95	475x0.5	3	21.5	196/0.4	1.8	6.3	63.4	692
C3M0603120BK	3+2+1	120	608x0.5	3	23.6	236/0.4	1.8	6.5	68.4	826
C3M0601350BK	3+2+1	150	740x0.5	3	25.4	314/0.4	1.8	6.6	72.5	977
C3M0603185BK	3+2+1	185	925x0.5	3	27.5	237/0.5	1.8	6.7	77.2	1122
C3M0603240BK	3+2+1	240	1221/0.5	3	30.1	302/0.5	1.8	6.9	83.2	1361
C3M0603240BK	3+2+1	300	1525/0.5	3	32.7	409/0.5	1.8	7	89	1652
Type 455.11-Class 1										
C3M1103016BK	3+2+1	16	126/0.4	5	12.4	120/0.3	2	5.8	55	392
C3M1103025BK	3+2+1	25	209x0.4	5	19.6	120/0.3	2	6.1	59.1	462
C3M1103035BK	3+2+1	35	285x0.4	5	20.9	120/0.3	2	6.3	62.4	527
C3M1103050BK	3+2+1	50	380x0.4	5	22.4	177/0.3	2	6.4	65.7	607
C3M1103070BK	3+2+1	70	361/0.5	5	24.4	152/0.4	2	6.5	70.2	742
C3M1103095BK	3+2+1	95	475x0.5	5	25.6	196/0.4	2.2	6.7	73.4	837
C3M1103120BK	3+2+1	120	608x0.5	5	27.7	236/0.4	2.2	6.8	78	982
C3M1103150BK	3+2+1	150	740x0.5	5	29.5	314/0.4	2.2	6.9	82.1	1143
C3M1103185BK	3+2+1	185	925x0.5	5	31.6	237/0.5	2.2	7	86.9	1305
C3M1103240BK	3+2+1	240	1221/0.5	5	34.2	302/0.5	2.2	7.2	92.9	1553
Type 455.22-Class 2										
C3M2203016BK	3+2+1	16	126x0.4	7.6	23.5	120/0.3	2.5	6.6	68.5	578
C3M2203025BK	3+2+1	25	209x0.4	7.6	25	120/0.3	2.5	6.6	71.7	653
C3M2203035BK	3+2+1	35	285x0.4	7.6	26.3	120/0.3	2.5	6.7	74.8	719
C3M2203050BK	3+2+1	50	380x0.4	7.6	27.8	183/0.3	2.5	6.8	78.3	810
C3M2203070BK	3+2+1	70	361x0.5	7.6	29.8	152/0.4	2.5	7	83	956
C3M2203095BK	3+2+1	95	475x0.5	7.6	31	196/0.4	2.5	7.1	85.8	1061
C3M2203120BK	3+2+1	120	608x0.5	7.6	33.1	236/0.4	2.5	7.2	90.6	1221
C3M2203150BK	3+2+1	150	740x0.5	7.6	34.9	314/0.4	2.5	7.3	94.7	1392
C3M2203185BK	3+2+1	185	925/0.5	7.6	37	237/0.5	2.5	7.4	99.2	1564

UK T 020 7241 8787 | F 020 7241 8700 | sales@elandcables.com | www.elandcables.com
International T +44 20 7241 8740 | F +44 20 7241 8700 | international@elandcables.com

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Type 455.33-Class 1										
C3M3303016BK	3+2+1	16	126x0.4	10.5	28.7	120/0.3	2.5	7	83	822
C3M3303025BK	3+2+1	25	209x0.4	10.5	30.1	120/0.3	2.5	7.1	86.4	920
C3M3303035BK	3+2+1	35	285x0.4	10.5	31.5	120/0.3	2.5	7.2	89.4	993
C3M3303050BK	3+2+1	50	380x0.4	10.5	34.1	183/0.3	2.5	7.3	92.8	1092
C3M3303070BK	3+2+1	70	361x0.5	10.5	36.1	152/0.4	2.5	7.4	97.4	1254
C3M3303095BK	3+2+1	95	475x0.5	10.5	37.3	196/0.4	2.5	7.6	100.5	1372
C3M3303120BK	3+2+1	120	608x0.5	10.5	39.4	236/0.4	2.5	7.7	105.2	1543

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