

Type 409 Flexible Copper Screened Mining Cable With Central Pilot



Eland Product Group: C3F

APPLICATION

For use as flexible feeder cable to machinery. More suitable as a trailing cable. Larger cables for power supply to draglines, shovels and drills. Smaller sizes used for drills, held hand tools and equipment.

CHARACTERISTICS

Voltage Rating

Type 409.1 - 1.1kV
Type 409.3 - 3.3kV
Type 409.6 - 6.6kV
Type 409.11 - 11kV
Type 409.22 - 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

EPR (Ethylene Propylene Rubber) type R-EP-90

Insulation Screen

1.1kV: Synthetic tape
From 3.3kV: Semi-conductive thermosetting compound

Screen

Tinned copper/polyamide braid

Cable Assembly

Three screened power laid up with right hand direction on cradle separator with central pilot core

Sheath

HD-PCP (Heavy Duty Polychloroprene) - extra heavy duty, oil resistant and flame retardant

Sheath Colour



STANDARDS

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

THE CABLE LAB[®]

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability



REGULATORY COMPLIANCE

This cable meets the requirements of the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].





DIMENSIONS

ELAND PART NO.	NO. CORES	NOMINAL CONDUCTOR AREA mm ²	THICKNESS OF INSULATION mm	NUMBER AND NOMINAL DIAMETER OF WIRES n x mm	NOMINAL DIAMETER OVER INSULATION mm	CORE SCREEN SIZE mm	AREA OF SCREEN mm ²	PILOT COND. STRAND/ SIZE No/mm	THICKNESS EPR COVERING mm	NOMINAL THICKNESS OF SHEATH mm	NOMINAL DIAMETER mm	NOMINAL WEIGHT kg/100m
Type 409.1												
C3F01010060BK	3+1	6	1.5	84x0.3	6.5	7/0.25	7.2	24/0.2	0.8	3.8	30	129
C3F0101010BK	3+1	10	1.5	77x0.4	7.7	7/0.25	8.6	24/0.2	0.8	3.8	32.6	157
C3F0101016BK	3+1	16	1.6	126x0.4	9	7/0.25	9.6	24/0.2	0.8	4	35.8	157
C3F0101025BK	3+1	25	1.6	209x0.4	10.5	7/0.25	11.3	24/0.2	0.8	4.3	39.7	255
C3F0101035BK	3+1	35	1.6	285x0.4	12.1	7/0.25	12.4	24/0.2	0.8	4.6	43.8	312
C3F0101050BK	3+1	50	1.7	380x0.4	13.8	7/0.25	14.4	40/0.2	0.8	5	48.4	386
C3F0101070BK	3+1	70	1.8	361x0.5	16.1	7/0.25	16.5	40/0.2	0.8	5.4	54	503
C3F0101095BK	3+1	95	2	475x0.5	17.7	7/0.30	21.8	40/0.2	0.8	6	59.4	622
C3F0101120BK	3+1	120	2.1	608x0.5	20	7/0.30	24.7	40/0.2	0.8	6.4	65.2	760
C3CF101150BK	3+1	150	2.3	740x0.5	22.2	7/0.40	36.9	40/0.2	0.8	6.9	72.2	960
C3CF101185BK	3+1	185	2.5	925x0.5	24.7	7/0.40	40.5	40/0.2	0.8	7.4	78.8	1139
C3CF101240BK	3+1	240	2.8	1221x0.5	27.9	7/0.50	57.7	40/0.2	0.8	8.2	88.7	1465
C3CF601016BK	3+1	300	3	1525x0.5	31	7/0.50	63.2	40/0.2	0.8	8.8	96.5	1790
Type 409.3												
C3F0301016BK	3+1	16	3	126x0.4	12.5	7/0.25	13.1	24/0.2	0.8	5.3	46.3	301
C3F0301025BK	3+1	25	3	209x0.4	14	7/0.25	14.8	24/0.2	0.8	5.6	50	371
C3F0301035BK	3+1	35	3	285x0.4	15.3	7/0.25	15.8	24/0.2	0.8	5.9	53.5	430
C3F0301050BK	3+1	50	3	380x0.4	16.8	7/0.25	17.2	40/0.2	0.8	6.3	57.5	511
C3F0301070BK	3+1	70	3	361x0.5	18.8	7/0.25	18.6	40/0.2	0.8	6.6	62.4	624
C3F0301095BK	3+1	95	3	475x0.5	20	7/0.30	20.3	40/0.2	0.8	7.1	66.1	724
C3F0301120BK	3+1	120	3	608x0.5	22.1	7/0.40	27.2	40/0.2	0.8	7.4	72.1	880
C3F0301150BK	3+1	150	3	740x0.5	23.9	7/0.40	39.6	40/0.2	0.8	7.8	77.9	1079
C3F0301185BK	3+1	185	3	925x0.5	26	7/0.40	42.2	40/0.2	0.8	8.2	83.5	1251
C3F0301240BK	3+1	240	3	1221x0.5	28.6	7/0.40	46.6	40/0.2	0.8	8.8	90.3	1502
Type 409.6												
C3F0601016BK	3+1	16	5	126x0.4	16.5	7/0.25	17.2	24/0.2	0.8	6.4	57.3	440
C3CF601025BK	3+1	25	5	209x0.4	18.0	7/0.25	18.6	24/0.2	0.8	6.7	61.2	516
C3CF601035BK	3+1	35	5	285x0.4	19.3	7/0.25	18.6	24/0.2	0.8	7	64.6	584
C3CF601050BK	3+1	50	5	380x0.4	20.8	7/0.25	21.3	40/0.2	0.8	7.3	68.5	669
C3CF601070BK	3+1	70	5	361x0.5	22.8	7/0.25	23.4	40/0.2	0.8	7.7	73.7	804
C3F0601095BK	3+1	95	5	475x0.5	24.0	7/0.25	29.2	40/0.2	0.8	8.1	77.8	934
C3F0601120BK	3+1	120	5	608x0.5	26.1	7/0.30	31.7	40/0.2	0.8	8.5	83.1	1090
C3F0601150BK	3+1	150	5	740x0.5	27.9	7/0.40	34.1	40/0.2	0.8	8.9	89.1	1310
C3F0601185BK	3+1	185	5	925x0.5	30.0	7/0.40	47.5	40/0.2	0.8	9.3	94.5	1479
C3F0601240BK	3+1	240	5	1221x0.5	32.6	7/0.40	52.8	40/0.2	0.8	9.9	101.4	1749
Type 409.11												
C3F1101025BK	3+1	25	7.6	209x0.4	23.4	7/0.25	23.7	24/0.2	0.8	8.1	75.6	750
C3F1101035BK	3+1	35	7.6	285x0.4	24.7	7/0.30	30.2	24/0.2	0.8	8.4	79.6	859
C3F1101050BK	3+1	50	7.6	380x0.4	26.2	7/0.30	31.7	40/0.2	0.8	8.7	83.5	954
C3F1101070BK	3+1	70	7.6	361x0.5	28.2	7/0.30	34.1	40/0.2	0.8	9.1	88.7	1105
C3F1101095BK	3+1	95	7.6	475x0.5	29.4	7/0.40	47.5	40/0.2	0.8	9.6	93.6	1290
C3F1101120BK	3+1	120	7.6	608x0.5	31.5	7/0.40	51.0	40/0.2	0.8	9.9	98.7	1460
C3F1101150BK	3+1	150	7.6	740x0.5	33.3	7/0.40	53.7	40/0.2	0.8	10.3	103.4	1636
Type 409.22												
C3F1101035BK	3+1	35	10.5	285x0.4	32.6	7/0.40	55.4	24/0.2	0.8	10.0	105.0	1405
C3F1101050BK	3+1	50	10.5	380x0.4	34.1	7/0.40	58.1	40/0.2	0.8	10.3	108.8	1525

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.