



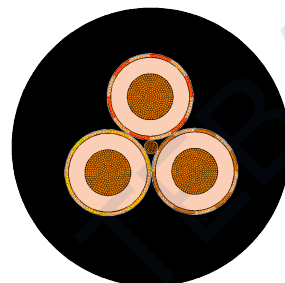
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

BS 6708 TYPE 730 3800/6600 V CABLE

Medium voltage screened trailing cable



APPLICATION

Used as a trailing cable for supplying large machines.

ENVIRONMENT

For use in deep mines where explosive gases and dust can accumulate, and on the surface.

CONSTRUCTION

Parameter	Value
Conductor	Electrolytic, stranded, tinned copper wire, IEC 60228 Class 5
Insulation	EPR
Screen	Tinned copper and nylon braided screen over phase cores
Lay-up	All cores laid up in contact around the bare copper earth core where fitted
Bedding	Rubber based bedding compound
Outer sheath	Heavy duty chloroprene outer sheath

CABLE CHARACTERISTICS

Parameter	Value
Standard	BS 6708
Rated voltage	3800/6600 V
Test voltage	15 kV
Core arrangement	Three individually screened cores; larger sizes include a central bare earth core

TECHNICAL DATA

Complete nominal dimensional data. Source ordering codes have been omitted.

CABLE DIMENSIONS						
Parameter	3x35	3x50	3x70	3x95	3x120+16	3x150+16
Phase conductor nominal cross section mm2	3x35	3x50	3x70	3x95	3x120	3x150
Phase conductor stranding	276/0.40	396/0.40	360/0.50	475/0.50	608/0.50	756/0.50
Phase conductor diameter nominal mm	8.40	10.10	11.90	13.90	15.50	17.20
Insulation thickness mm	5.0	5.0	5.0	5.0	5.0	5.0
Earth conductor cross section mm2	-	-	-	-	1x16	1x16
Earth conductor stranding	-	-	-	-	126/0.40	126/0.40
Earth conductor diameter nominal mm	-	-	-	-	5.50	5.50
Outer sheath thickness mm	6.0	6.3	6.8	7.3	7.6	8.0
Minimum overall diameter mm	57.5	62.0	67.5	73.1	76.9	82.1
Maximum overall diameter mm	60.5	65.0	71.4	76.9	80.9	86.0
Minimum bending radius mm	605	650	714	769	809	860
Approximate cable weight kg/km	4800	5900	7100	8500	9950	11400
Copper weight kg/km	1300	1800	2500	3250	4200	5000

TECHNICAL DATA

Complete nominal dimensional data. Source ordering codes have been omitted.

ELECTRICAL DETAILS						
Parameter	3x35	3x50	3x70	3x95	3x120+16	3x150+16
Continuous current rating at 25 deg C ambient A	135	170	205	250	295	320
Phase conductor DC resistance at 20 deg C ohm/km	0.565	0.393	0.277	0.210	0.164	0.132
Three screens and earth in parallel DC resistance ohm/km	0.81	0.78	0.55	0.42	0.32	0.26

NOTES

Nominal values are for cable selection. Actual cable dimensions may vary due to manufacturing tolerances. Earth conductor is fitted in the larger cross-section types as indicated.

CERTIFICATIONS

