



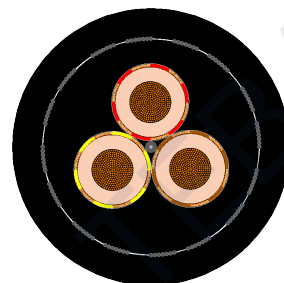
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

BS 6708 TYPE 630 / TYPE 631 3.8/6.6 kV CABLE

Power supply cable with galvanized steel armouring



APPLICATION

Used for supplying excavating and crushing machines and equipment.

ENVIRONMENT

Designed for deep mines where explosive gases and dust can accumulate, and for surface applications.

CONSTRUCTION

Parameter	Value
Conductor	Electrolytic stranded tinned copper wire, IEC 60228 Class 5
Insulation	EPR insulation
Screen	Tinned copper and nylon braided screen over phase cores; earth core in Type 631 is not screened
Lay-up	Cores laid up in contact with each other
Bedding	Rubber based bedding compound
Armour	Galvanized steel pliable armour
Outer sheath	Heavy duty chloroprene outer sheath

CABLE CHARACTERISTICS

Parameter	Value
Standard	BS 6708
Rated voltage	3.8/6.6 kV
Test voltage	15 kV
Type 630	Three phase cores with composite individual screens
Type 631	Three screened phase cores with one unscreened earth core

TECHNICAL DATA

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

CORE DIMENSIONS									
Type	Nominal cross section	Phase conductors	Phase stranding mm	Phase cond. dia. mm	Phase insul. thick. mm	Earth conductor	Earth stranding mm	Earth cond. dia. mm	Earth insul. thick. mm
Type 630	3x35	3x35	276/0.40	8.40	5.0	-	-	-	-
Type 630	3x50	3x50	396/0.40	10.10	5.0	-	-	-	-
Type 630	3x70	3x70	360/0.50	11.90	5.0	-	-	-	-
Type 630	3x95	3x95	475/0.50	13.90	5.0	-	-	-	-
Type 630	3x120	3x120	608/0.50	15.50	5.0	-	-	-	-
Type 630	3x150	3x150	756/0.50	17.20	5.0	-	-	-	-
Type 631	3x50+35	3x50	396/0.40	10.10	5.0	1x35	276/0.40	8.40	5.0
Type 631	3x70+50	3x70	360/0.50	11.90	5.0	1x50	396/0.40	10.10	5.0

CABLE DIMENSIONS									
Type	Nominal cross section	Inner sheath radial thick. mm	Min. inner sheath dia. mm	Max. inner sheath dia. mm	Armour size mm	Outer sheath thick. mm	Min. OD mm	Max. OD mm	Min. bend radius mm
Type 630	3x35	3.8	53.1	56.1	7/0.90	6.0	70.5	74.5	894
Type 630	3x50	3.8	56.0	60.0	7/0.90	6.3	75.0	79.3	952
Type 630	3x70	5.0	63.0	67.0	7/1.25	6.8	85.1	84.9	1019
Type 630	3x95	5.0	72.3	72.3	7/1.25	7.3	90.6	94.9	1139
Type 630	3x120	5.0	75.5	75.5	7/1.25	7.6	94.4	98.7	1185
Type 630	3x150	5.0	80.0	80.0	7/1.25	8.0	99.6	103.9	1247
Type 631	3x50+35	5.0	65.4	69.2	7/0.90	6.9	86.7	91.0	1092
Type 631	3x70+50	5.0	70.5	74.3	7/1.25	7.4	92.8	97.1	1166

TECHNICAL DATA

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

MECHANICAL AND ELECTRICAL DETAILS								
Type	Nominal cross section	Approx. weight kg/km	Copper weight kg/km	Current rating at 25 deg C A	Phase cond. DC res. ohm/km	Earth cond. DC res. ohm/km	Armour DC res. ohm/km	3 screens parallel ohm/km
Type 630	3x35	8400	1010	135	0.565	-	0.76	0.10
Type 630	3x50	9850	1450	170	0.393	-	0.71	0.88
Type 630	3x70	12050	2020	205	0.277	-	0.46	0.72
Type 630	3x95	13850	2750	250	0.210	-	0.43	0.78
Type 630	3x120	19200	3460	295	0.164	-	0.41	0.62
Type 630	3x150	21200	4330	320	0.132	-	0.39	0.67
Type 631	3x50+35	12100	2100	170	0.393	0.565	0.45	0.45
Type 631	3x70+50	14250	3100	205	0.277	0.393	0.42	0.42

NOTES

Nominal values are for cable selection. Actual cable dimensions may vary due to manufacturing tolerances.

CERTIFICATIONS



TEBAOFLEX CABLE