



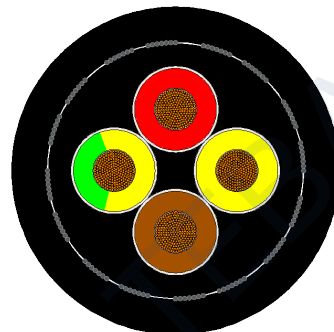
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

BS 6708 TYPE 621 3800/6600 V CABLE

Power supply cable with galvanized steel armouring



APPLICATION

Used for supplying excavating, crushing machines and equipment 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
Lay-up	Cores are laid up over 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	3800/6600 V
Test voltage	15 kV
Cable type	Three phase cores and one pilot core, all unscreened, laid up in contact with each other; pliable armour between inner and outer sheaths

TECHNICAL DATA

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

CORE DIMENSIONS				
Nominal cross section	Conductors	Stranding mm	Conductor diameter mm	Insulation thickness mm
4x35	4x35	276/0.40	8.40	5.0
4x50	4x50	396/0.40	10.10	5.0
4x70	4x70	360/0.50	11.90	5.0
4x95	4x95	475/0.50	13.90	5.0
4x120	4x120	608/0.50	15.50	5.0
4x150	4x150	756/0.50	17.20	5.0

CABLE DETAILS										
Nominal cross section	Inner sheath thickness mm	Min. inner sheath dia. mm	Max. inner sheath dia. mm	Armour size mm	Outer sheath thickness mm	Min. OD mm	Max. OD mm	Min. bend radius mm	Approx. weight kg/km	Copper weight kg/km
4x35	3.8	53.8	56.8	7/0.90	6.0	71.2	75.2	752	8900	1350
4x50	5.0	60.5	63.5	7/1.25	6.3	81.0	85.3	853	11100	1950
4x70	5.0	65.6	69.4	7/1.25	7.0	87.1	91.4	914	13000	2700
4x95	5.0	70.7	74.5	7/1.25	7.5	93.2	97.5	975	14050	3700
4x120	5.0	74.3	78.1	7/1.25	7.8	97.4	101.7	1017	20600	4650
4x150	5.0	79.2	83.2	7/1.25	8.3	103.3	107.6	1076	22000	5800

TECHNICAL DATA

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

CURRENT RATINGS	
Nominal cross section	Continuous current rating at 25 deg C A
4x35	135
4x50	170
4x70	205
4x95	250
4x120	295
4x150	320

ELECTRICAL DETAILS		
Nominal cross section	Conductors Max. DC res. at 20 deg C ohm/km	Armour Max. DC res. at 20 deg C ohm/km
4x35	0.565	0.70
4x50	0.393	0.50
4x70	0.277	0.43
4x95	0.210	0.39
4x120	0.164	0.38
4x150	0.132	0.35

NOTES

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

CERTIFICATIONS

