



TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

BS 6708 TYPE 11 640/1100 V CABLE

Power supply cable for coalcutters and other machines



APPLICATION

Used for supplying excavating and crushing machines, coalcutters and other equipment in deep mines or surface environments where explosive gases and dust can accumulate.

CONSTRUCTION

Parameter	Value
Conductor	Electrolytic stranded tinned copper wire, IEC 60228 Class 5
Insulation	EPR insulation
Separator	Coloured textile tape for core identification
Screen	Tinned copper and nylon braided screen over phase and pilot cores
Pilot core	One screened pilot core laid up with the phase cores
Lay-up	Three phase cores and one pilot core with composite individual screens laid up around an elastomeric cradle and in contact with each other
Bedding	Rubber based bedding compound
Outer sheath	Heavy duty chloroprene outer sheath

CABLE CHARACTERISTICS

Parameter	Value
Standard	BS 6708
Rated voltage	640/1100 V
Test voltage	3 kV
Cable type	Composite individually screened phase cores and screened pilot core laid up around an elastomeric cradle

TECHNICAL DATA

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

CORE DIMENSIONS						
Nominal cross section	Phase conductor	Phase stranding mm	Cond. dia. mm	Insul. dia. mm	Screen dia. mm	Pilot conductor
3x16+16	3x16	126/0.40	5.50	8.60	10.90	1x16

PILOT CORE DETAILS					
Nominal cross section	Pilot conductor	Pilot stranding mm	Pilot cond. dia. mm	Pilot insul. dia. mm	Pilot screen dia. mm
3x16+16	1x16	126/0.40	5.50	8.60	10.90

CABLE DETAILS						
Nominal cross section	Min. OD mm	Max. OD mm	Min. bend radius mm	Max pulling tension kgf	Approx. weight kg/km	Copper weight kg/km
3x16+16	30.9	33.0	264	384	2000	1100

CURRENT RATINGS		
Nominal cross section	Continuous current rating at 25 deg C A	Intermittent current rating at 25 deg C A
3x16+16	85	96

ELECTRICAL DETAILS							
Nominal cross section	Phase DC res. 20 deg C ohm/km	Pilot DC res. 20 deg C ohm/km	Screens+earth res. ohm/km	Reactance 50 Hz ohm/km	Reactance 60 Hz ohm/km	Min. insul. res. Mohm/km	Voltage drop mV/A/m
3x16+16	1.24	1.24	1.05	0.109	0.131	435	2.62

NOTES

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

CERTIFICATIONS



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