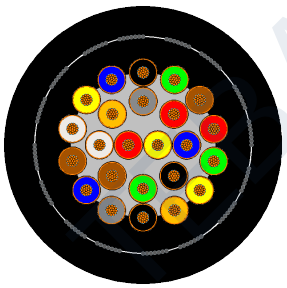
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

BS 6708 TYPE 506 / 512 / 518 / 524 320/550 V CABLE

Multi core control cable with galvanized steel armouring



APPLICATION

Used as control cable in large mining machines and for connecting surrounding machine segments.

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 or TPE insulation
Screen	Tinned copper and nylon braided screen over cores
Lay-up	All cores are 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	320/550 V
Test voltage	1.5 kV
Cable design	Composite individual screens with pliable armour between inner and outer sheaths

TECHNICAL DATA

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

CORE DIMENSIONS

Type	Nominal cross section	Conductors number and cross section	Stranding mm	Cond. dia. mm	Insul. thick. mm
Type 506	18x1.34	18x1.34	19/0.30	1.60	0.4
Type 512	6x1.34	6x1.34	19/0.30	1.60	0.4
Type 518	12x1.34	12x1.34	19/0.30	1.60	0.4
Type 524	24x0.93	24x0.93	19/0.25	1.30	0.4

CABLE DIMENSIONS

Type	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
Type 506	1.5	16.5	18.5	7/0.45	1.8	22.8	25.3
Type 512	3.5	14.8	16.8	7/0.45	1.8	22.1	23.6
Type 518	1.8	14.8	16.8	7/0.45	1.8	22.1	23.6
Type 524	1.5	17.9	19.9	7/0.45	1.8	24.2	26.7

TECHNICAL DATA

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

MECHANICAL AND ELECTRICAL DETAILS

Type	Min. bend radius mm	Approx. weight kg/km	Copper weight kg/km	Current rating at 25 deg C A	Max. DC resistance at 20 deg C ohm/km	Armour DC res. ohm/km	3 phase voltage drop mV/A/m
Type 506	253	1400	450	11	15.4	4.76	30
Type 512	236	1020	150	16	15.4	5.40	30
Type 518	236	1200	300	13	15.4	5.40	30
Type 524	267	1600	450	8	22.1	4.50	43

ADDITIONAL ELECTRICAL DATA

Parameter	Value
Max. DC resistance at 20 deg C - conductors	15.4 ohm/km for Types 506, 512 and 518; 22.1 ohm/km for Type 524
Max. DC resistance at 20 deg C - armour	4.76 ohm/km for Type 506; 5.40 ohm/km for Types 512 and 518; 4.50 ohm/km for Type 524
3 screens in parallel connection	37.3 ohm/km for Types 506, 512 and 518; 44.7 ohm/km for Type 524
DC or single phase voltage drop	34 mV/A/m for Types 506, 512 and 518; 50 mV/A/m for Type 524
3 phase voltage drop	30 mV/A/m for Types 506, 512 and 518; 43 mV/A/m for Type 524
Continuous current rating	At 25 deg C ambient

NOTES

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

CERTIFICATIONS