

ESKOM STANDARD CODE FOR POWER AND CONTROL CABLES

CABLE VOLTAGE RATING,
PHASE TO PHASE VOLTAGE

INSULATION

CONSTRUCTION AROUND THE CORES

INDIVIDUAL
CORE AREA

CONDUCTOR MATERIAL

OUTER SHEATING OR PROTECTION

B

V

X

99

D

C

V

NUMBER OF CORES

A	300/500V	A	ASBESTOS	A	ALUMINIUM SHEATH	A	0.5mm ²	A	STRANDED ALUMINIUM	A	ASBESTOS TAPED
B	600/1000V	B		B		B	0.75mm ²	B	SOLID ALUMINIUM	B	BITUMINOUS PAINTED
C	3300V	C	CAMBRIC	C	COPPER SHEATH	C	1.5mm ²	C	STRAINED COPPER	C	BLACK CONDUIT
D	6600V	D		D	SINGLE CORE LEADS	D	2.5mm ²	D	SOLID COPPER	D	DUCTING
E	11000V	E		E	INDIVIDUAL COPPER SCREEN TAPE PLUS SINGLE SINGLE STEEL WIRE ARMOURING	E	4mm ²	E		E	FLEXIBLE CONDUIT
F	22000V	F		F	FLAME RETARDENT PVC BEDDING	F	6mm ²	F		F	FLAME RETARDENT PVC SHEATH
G	33000V	G		G	INDIVIDUAL COPPER SCREEN TAPE	G	10mm ²	G		G	GLASS-FIBRE WATERPROOFED
H	66000V	H		H	INDIVIDUAL BRASS SCREEN TAPE	H	16mm ²	H		H	HESSIAN WATERPROOFED
J	88000V	J	HALOGEN FREE LOW SMOKE MATERIAL	J	HALOGEN FREE, LOW SMOKE FLAME RETARDENT BEDDING	J		J		J	HALOGEN FREE LOW SMOKE FLAME RETARDENT SHEATHED
K	132000	K		K	INDIVIDUAL COPPER SCREEN TAPE PLUS DOUBLE STEEL WIRE ARMOURING	K	25mm ²	K		K	
L	275000	L		L	LEAD COVERED	L	35mm ²	L		L	GALVANISED CONDUIT
M		M	MINERAL	M	LOW HALOGEN PVC BEDDING	M	50mm ²	M		M	LOW HALOGEN PVC SHEATHED
N		N	NEOPRENE	N		N	70mm ²	N		N	NEOPRENE
P		P	PAPER	P	SCREEN OVER ALL CORES AND SINGLE WIRE ARMoured	P	95mm ²	P		P	
Q	330000V	Q	POLYTHYLENE	Q		Q	120mm ²	Q		Q	POLYURETHANE SHEATHED
R	400000V	R	RUBBER	R	RUBBER COVERED	R	150mm ²	R		R	RUBBER SANDWICH
S		S	PAPER SCREENED	S	SCREEN OVER ALL CORES	S	185mm ²	S		S	
T		T		T	LEAD COVERED DOUBLE WIRE ARMoured	T	240mm ²	T		T	PVC TAPED
U	REF DWG 0 00/1744 TELEPHONE	U		U	DOUBLE STEEL TAPE ARMOUR	U	300mm ²	U		U	
V	REF DWG 0 00/2713 CONTROL	V	GENERAL PVC	V	GENERAL PVC COVERED	V	400mm ²	V		V	GENERAL PVC SHEATHED
W	REF DWG 0 00/2713 CONTROL	W		W	LEAD COVERED SINGLE WIRE ARMoured	W	500mm ²	W		W	HEAT RESISTANT PVC SHEATHED
X		X	CROSS LINKED * POLYTHYLENE (XLPE)	X	STEEL WIRE ARMoured	X	630mm ²	X		X	HIGH IMPACT PVC SHEATHED
Y		Y		Y		Y	800mm ²	Y		Y	
Z		Z	SPECIAL	Z	SPECIAL	Z	SPECIAL	Z	SPECIAL	Z	SPECIAL

$V_{bp} < 5\%$