

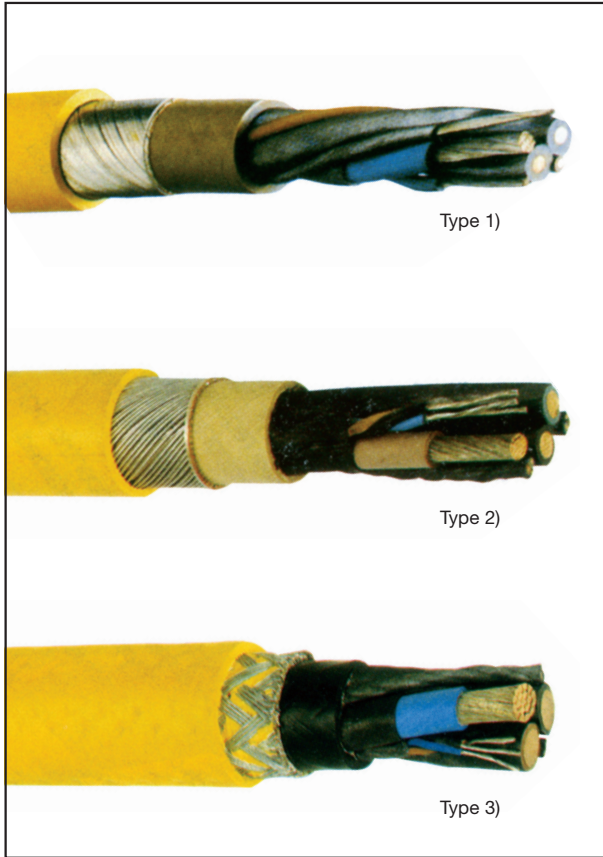
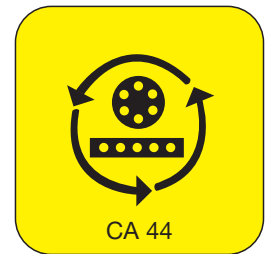
TEXOPRENETM MINING CABLE -

Type 1) TRSSue
Type 2) TRSSvue
Type 3) TRSSzue

MINING TRAILING CABLES TO VDE 0250, NOMINAL VOLTAGE 1000 V

HEAVY TO VERY HEAVY DUTY MECHANICAL STRESSES

CABLES FOR MINES AND TUNNELS WITH CONTROL AND DAMAGE MONITORING I.C.M. * CORES



CONSTRUCTION FOR 1), 2), 3)

Phase Cores: copper conductor, tinned, finely stranded - EPR insulation of dielectrical and thermal high quality, ozone resistant - extruded and coloured black, blue, brown - outer conducting layer of conductive rubber (cold strippable) - insulation and conducting layer is extruded and cross-linked in one process on Powermite cables.

Control cores for 1), 2), 3): copper conductor, tinned, finely stranded - EPR insulation of dielectrical and thermal high quality, ozone resistant - extruded and coloured blue and brown

Monitoring cores for 1), 2), 3): copper conductor, tinned, finely stranded - jacket of conductive rubber coloured black

2 control cores for 2) and 3): and the monitoring core laid up with short pitch diameter as a triad to meet the special requirements for monitoring functions as well as high mechanical stresses

3 phase cores for 1): laid-up with 2 short pitch diameter control cores and 1 monitoring core in the interstices

3 phase cores for 2) and 3): laid-up with 1 triad in each of the interstices (within cables of 25mm² and larger)

Inner sheath for 1): bedding filling the interstices - concentric conductor of tinned copper conductors

Inner sheath for 2) and 3): bedding filling the interstices in either concentric reinforced protection conductors or braided special steel / copper strands

Outer sheath: chlorinated rubber like polychloroprene (CR), oil resistant and flame retardant, available in different sheath qualities, yellow

*individual concentric monitoring

TECHNICAL DATA

1. Max. operating Voltage AC : 690 V / 1150 V
2. Max. operating Voltage DC : 1040 V / 1730 V
3. Test Voltage AC : 3000 V
4. Max. Conductor resistance : to DIN/VDE 0295, Class 5
5. Temperature range : mobile -25 °C to +80 °C
fixed -40 °C to +80 °C

6. Current Capacity : see Table 3 page 52 VDE 0100
7. Derating : see Table 3 page 52 VDE 0100
8. Specification : VDE 0250 Part 810, 811,812
9. Min. bending radius : mobile 2,5 x cable O.D.
fixed 1,5 x cable O.D.
10. Tensile stress : not to exceed 15N/mm² to VDE of total powercore cross section

No. of cores and rated cross section mm ²	outer diameter approx. mm	weight approx. kg/m	inductive resistance at 50Hz approx V/km	capacity phase cores approx. µF/km
1) TRSSue				
3 x 6/6 kon + 2 x 1,5 St + 1,5 UEL	24-28	0,9	0,5	0,3
2) TRSSvue				
3 x 16/ 16 kon + 2 x 2,5 St + 2,5 UEL	33-38	2,0	0,10	0,44
3 x 25/ 16 kon + 3 x (2 x 1,5 St + 2,5 UEL)	41-46	3,0	0,10	0,45
3 x 35/ 16 kon + 3 x (2 x 1,5 St + 2,5 UEL)	43-48	3,2	0,09	0,50
3 x 50/ 25 kon + 3 x (2 x 1,5 St + 2,5 UEL)	48-51	4,2	0,09	0,56
3 x 70/ 35 kon + 3 x (2 x 1,5 St + 2,5 UEL)	52-55	5,4	0,08	0,65
3 x 95/ 50 kon + 3 x (2 x 1,5 St + 2,5 UEL)	57-62	6,9	0,08	0,69
3 x 120/70 kon + 3 x (2 x 1,5 St + 2,5 UEL)	62-67	8,6	0,08	0,75

No. of cores and rated cross section mm ²	outer diameter approx. mm	weight approx. kg/m	inductive resistance at 50Hz approx Ω/km	capacity phase cores approx. µF/km
3) TRSSzue				
3 x 16/ 16 kon + 2 x 2,5 St + 2,5 UEL	36-40	2,0	0,10	0,44
3 x 25/ 16 kon + 3 x (2 x 1,5 St + 2,5 UEL)	43-48	3,0	0,10	0,45
3 x 35/ 16 kon + 3 x (2 x 1,5 St + 2,5 UEL)	43-48	3,2	0,09	0,50
3 x 50/ 25 kon + 3 x (2 x 1,5 St + 2,5 UEL)	49-54	4,2	0,09	0,56
3 x 70/ 35 kon + 3 x (2 x 1,5 St + 2,5 UEL)	52-57	5,4	0,08	0,65
3 x 95/ 50 kon + 3 x (2 x 1,5 St + 2,5 UEL)	60-65	6,9	0,08	0,69
3 x 120/70 kon + 3 x (2 x 1,5 St + 2,5 UEL)	63-68	8,6	0,08	0,75
3 x 150/70 kon + 3 x (2 x 1,5 St + 2,5 UEL)	67-72	10,0	0,08	0,80

Special Designs: Further design specialisation i.e. cables with smaller or larger conductor cross sections, cables to different international specifications, also with deviating monitoring systems, on request.

Above sizes may require minimum quantities
All quoted data is approximate and not binding