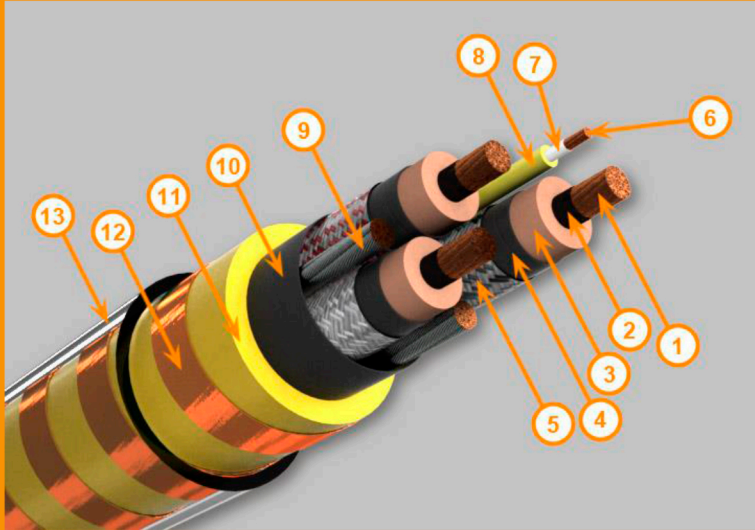


CABLE TYPE SHD-GC, THREE CONDUCTORS ROUND PORTABLE POWER CABLES, EPR INSULATION 90 °C, FROM 2 kV TO 25 kV, WITH TWO GROUNDING CONDUCTORS AND ONE GROUND-CHECK CONDUCTOR, REFLECTIVE TAPE AND THERMOPLASTIC POLYURETHANE JACKET (TPU)



Description:

- 1- Flexible Annealed Plain Bare Copper Conductors.*
- 2- Extruded Conductor Shielding.
- 3- EPR (Ethylene-Propylene Rubber) insulation, natural color
- 4- Extruded Insulation Shielding.
- 5- Combination Annealed Tinned Copper & Colored Textile Braid Shield over individual Phase Conductors; (Black-Red-White ICEA); (Black-Red-Blue CSA)
- 6- Flexible Annealed Plain Bare Copper Conductor.*
- 7- Mylar tape.
- 8- Yellow EPR (Ethylene-Propylene Rubber) Insulated Ground Check Conductor
- 9- Stranded Annealed Uninsulated Plain Bare Copper Ground Wires*
- 10- Rubber-Faced Binder Tape.
- 11- TPU (Thermoplastic Polyurethane) inner Jacket; available in assorted colors**
- 12- Helically applied Reflective Tape available in assorted colors***
- 13- Overall transparent TPU (Thermoplastic Polyurethane) Jacket

*Also available Flexible Annealed Tinned Copper Conductors, in order to protect it for sites with severe corrosion.

**The inner jacket TPU could be provided yellow, orange, red, black, etc.

***Reflective tape could be provided yellow, orange or white.

NOTE: Patent pending

Purpose:

- Mining equipment power line

Properties:

- High reliability
- Low moisture absorption
- Flexible conductors
- Excellent flexibility
- Excellent acid resistance
- Excellent alkaline substance resistance
- Excellent high temperature resistance
- Excellent resistance to mechanical abuse
- Excellent abrasión resistance
- Excellent moisture resistance
- Excellent resistance to flame propagation
- Excellent tensile strength properties
- Excellent sunlight resistance
- Excellent oil resistance
- Excellent resistance to flattening and compression
- Excellent resistance to mechanical mistreatment
- Excellent ozone resistance
- Excellent tear strength properties
- Excellent mechanical resistance
- Personnel security

Special features:

- The ground check conductor allows permanent monitoring of conductors connected to ground, providing maximum security to workers.
- Seguriflex^{MR} Cables containing Reflective Tape and "Extra Heavy Duty" TPU jacket are ideal for applications where maximum security and durability are required for Operator protection and are suitable for both underground and open pit mining rugged environments.

Special features:

- Extra Heavy Duty (EHD) TPU Compound exceeds ICEA Standard S-75-381 testing requirements for Tensile Strength, Elongation, Abrasion Resistance, and Tear Resistance; excellent performance against mechanical abuse, continuity winding and unwinding, dragging, flattening, abrasion, tear, etc. in comparison with regular jackets.
- Reflective tape in the Seguriflex^{MR} Cables allows for easy identification of electrical cables (powerlines), this is achieved by only illuminating the cable with the mining helmet lamp. This characteristic helps to avoid damage to the cable caused by any impact from moving equipments, eliminating the possibility of any electrical interruption or any electrical shock to workers, equipment and installations
- Reflective Tape is applied helically along the cable, allowing easy identification in any position.

Standard:

- ICEA S 75-381

Voltage:

- 2 kV
- 5 kV
- 8 kV
- 15 kV
- 25 kV

Temperature:

- Normal - Operating 90 °C
- Emergency overload 130 °C
- Shortcircuit 250 °C

Type of Installation:

- Visible (on the ground)

Insulation compound:

- Ethylene-Propylene Rubber (EPR)

Jacket compound:

- Thermoplastic Polyurethane (TPU)

Product certification:

- Mine Safety Health Administration (MSHA)

Quality certification:

- ISO 9001:2008 Quality system certified by Underwriters Laboratories (UL)

Ordering information:

• Seguriflex^{MR}. Round Cable type SHD-GC, Voltage, conductors size, inner jacket color (TPU), reflective tape color, length in feet and product number

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Product number	Voltage (V)	Conductor size (AWG-kcmil)	Conductor cross section area (mm ²)	Power conductors	Conductor diameter (mm)	Insulation Thickness (mm)	Insulation diameter (mm)	Grounding conductors	Grounding conductor size (AWG-kcmil)	Grounding conductor cross section area (mm ²)	Ground check size (AWG)	Ground check diameter (mm)	Outside diameter (mm)	Approximate weight (lb/1000 ft)	Packing	Internal jacket color
17021200BA	2 000	6	13,30	3	4,91	1,77	8,74	2	10	5,26	10	2,96	31,75	995,8	REEL	YELLOW
17021200CA	2 000	4	21,15	3	6,20	1,77	10,02	2	8	8,37	10	2,96	34,52	1 262,2	REEL	YELLOW
17021200DA	2 000	3	26,67	3	6,74	1,77	10,55	2	7	10,55	10	2,96	36,90	1 511,6	REEL	YELLOW
170212008A	2 000	2	33,62	3	7,48	1,77	11,30	2	6	13,30	10	2,96	38,82	1 727,1	REEL	YELLOW
170212009A	2 000	1	42,41	3	8,41	2,03	12,73	2	5	16,76	8	3,73	42,95	2 158,5	REEL	YELLOW
17021200AA	2 000	1/0	53,50	3	9,44	2,03	13,76	2	4	21,15	8	3,73	45,26	2 504,7	REEL	YELLOW
170212005A	2 000	2/0	67,40	3	10,60	2,03	14,92	2	3	26,67	8	3,73	48,79	3 035,5	REEL	YELLOW
170212006A	2 000	3/0	85,0	3	11,91	2,03	16,22	2	2	33,62	8	3,73	51,91	3 563,3	REEL	YELLOW
170212007A	2 000	4/0	107,0	3	13,36	2,03	17,66	2	1	42,41	8	3,73	56,36	4 284,7	REEL	YELLOW
170212001A	2 000	250	127,0	3	15,21	2,41	20,29	2	1/0	53,50	8	3,73	61,11	5 101,1	REEL	YELLOW
170212002A	2 000	300	152,0	3	16,57	2,41	21,65	2	1/0	53,50	8	3,73	65,25	5 770,8	REEL	YELLOW
170212003A	2 000	350	177,0	3	17,87	2,41	22,94	2	2/0	67,40	8	3,73	68,37	6 556,5	REEL	YELLOW
170212004A	2 000	500	253,0	3	21,38	2,41	26,44	2	4/0	107,0	8	3,73	77,00	9 017,7	REEL	YELLOW
17021200IA	5 000	6	13,30	3	4,91	2,79	11,74	2	10	5,26	8	3,73	39,87	1 322,1	REEL	YELLOW
17021200JA	5 000	4	21,15	3	6,20	2,79	13,05	2	8	8,37	8	3,73	42,63	1 638,7	REEL	YELLOW
17021200KA	5 000	3	26,67	3	6,74	2,79	13,59	2	7	10,55	8	3,73	44,86	1 880,2	REEL	YELLOW
17021200LA	5 000	2	33,62	3	7,48	2,79	14,33	2	6	13,30	8	3,73	46,46	2 093,8	REEL	YELLOW
17021200MA	5 000	1	42,41	3	8,41	2,79	15,26	2	5	16,76	8	3,73	48,45	2 426,9	REEL	YELLOW
17021200NA	5 000	1/0	53,50	3	9,44	2,79	16,29	2	4	21,15	8	3,73	51,47	2 826,0	REEL	YELLOW
17021200OA	5 000	2/0	67,40	3	10,60	2,79	17,44	2	3	26,67	8	3,73	53,96	3 260,2	REEL	YELLOW
17021200PA	5 000	3/0	85,0	3	11,91	2,79	18,75	2	2	33,62	8	3,73	57,57	3 830,9	REEL	YELLOW
17021200QA	5 000	4/0	107,0	3	13,36	2,79	20,19	2	1	42,41	8	3,73	60,79	4 543,1	REEL	YELLOW
17021200EA	5 000	250	127,0	3	15,21	3,05	22,82	2	1/0	53,50	8	3,73	67,12	5 417,7	REEL	YELLOW
17021200FA	5 000	300	152,0	3	16,57	3,05	24,17	2	1/0	53,50	8	3,73	70,04	6 006,9	REEL	YELLOW

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CABLE TYPE SHD-GC, THREE CONDUCTORS ROUND PORTABLE POWER CABLES, EPR INSULATION 90 °C, FROM 2 kV TO 25 kV, WITH TWO GROUNDING CONDUCTORS AND ONE GROUND-CHECK CONDUCTOR, REFLECTIVE TAPE AND THERMOPLASTIC POLYURETHANE JACKET (TPU)



Product number	Voltage (V)	Conductor size (AWG-kcmil)	Conductor cross section area (mm ²)	Power conductors	Conductor diameter (mm)	Insulation Thickness (mm)	Insulation diameter (mm)	Grounding conductors	Grounding conductor size (AWG-kcmil)	Grounding conductor cross section area (mm ²)	Ground check size (AWG)	Ground check diameter (mm)	Outside diameter (mm)	Approximate weight (lb/1000 ft)	Packing	Internal jacket color
17021200GA	5 000	350	177,0	3	17,87	3,05	25,47	2	2/0	67,40	8	3,94	73,63	6 843,0	REEL	YELLOW
17021200HA	5 000	500	253,0	3	21,38	3,05	28,97	2	4/0	107,0	8	3,94	81,17	9 171,5	REEL	YELLOW
17021200VA	8 000	4	21,15	3	6,20	3,81	15,14	2	8	8,37	8	3,94	48,14	1 964,9	REEL	YELLOW
17021200WA	8 000	3	26,67	3	6,74	3,81	15,68	2	7	10,55	8	3,94	49,30	2 157,1	REEL	YELLOW
17021200XA	8 000	2	33,62	3	7,48	3,81	16,42	2	6	13,30	8	3,94	51,70	2 427,9	REEL	YELLOW
17021200YA	8 000	1	42,41	3	8,41	3,81	17,34	2	5	16,76	8	3,94	53,76	2 730,3	REEL	YELLOW
17021200ZA	8 000	1/0	53,5	3	9,44	3,81	18,38	2	4	21,15	8	3,94	56,49	3 127,5	REEL	YELLOW
170212010A	8 000	2/0	67,4	3	10,60	3,81	19,53	2	3	26,67	8	3,94	59,92	3 642,2	REEL	YELLOW
170212011A	8 000	3/0	85,0	3	11,91	3,81	20,83	2	2	33,62	8	3,94	63,75	4 313,6	REEL	YELLOW
170212012A	8 000	4/0	107,0	3	13,36	3,81	22,28	2	1	42,41	8	3,94	66,96	4 984,9	REEL	YELLOW
17021200RA	8 000	250	127,0	3	15,21	3,81	24,39	2	1/0	53,50	8	3,94	70,45	5 670,3	REEL	YELLOW
17021200SA	8 000	300	152,0	3	16,57	3,81	25,74	2	1/0	53,50	8	3,94	74,17	6 388,7	REEL	YELLOW
17021200TA	8 000	350	177,0	3	17,87	3,81	27,04	2	2/0	67,40	8	3,94	77,75	7 240,8	REEL	YELLOW
17021200UA	8 000	500	253,0	3	21,38	3,81	30,54	2	4/0	107,0	8	3,94	86,48	9 678,8	REEL	YELLOW
170212013A	15 000	2	33,62	3	7,48	5,33	19,55	2	6	13,30	8	3,94	59,15	2 888,3	REEL	YELLOW
170212014A	15 000	1	42,41	3	8,41	5,33	20,47	2	5	16,76	8	3,94	61,00	3 284,1	REEL	YELLOW
170212015A	15 000	1/0	53,50	3	9,44	5,33	21,51	2	4	21,15	8	3,94	64,21	3 704,7	REEL	YELLOW
170212016A	15 000	2/0	67,40	3	10,60	5,33	22,66	2	3	26,67	8	3,94	66,65	4 170,4	REEL	YELLOW
170212017A	15 000	3/0	85,0	3	11,91	5,33	23,96	2	2	33,62	8	3,94	70,54	4 818,2	REEL	YELLOW
170212018A	15 000	4/0	107,0	3	13,36	5,33	25,41	2	1	42,41	8	3,94	74,16	5 552,7	REEL	YELLOW
170212019A	25 000	1	42,41	3	8,41	7,49	24,90	2	5	16,76	8	3,94	72,15	4 074,3	REEL	YELLOW
17021201AA	25 000	1/0	53,50	3	9,44	7,49	25,93	2	4	21,15	8	3,94	74,37	4 558,2	REEL	YELLOW
17021201BA	25 000	2/0	67,40	3	10,60	7,49	27,09	2	3	26,67	8	3,94	77,75	5 109,9	REEL	YELLOW
17021201CA	25 000	3/0	85,0	3	11,91	7,49	28,39	2	2	33,62	8	3,94	80,97	5 747,6	REEL	YELLOW
17021201DA	25 000	4/0	107,0	3	13,36	7,49	29,84	2	1	42,41	8	3,94	85,10	6 577,5	REEL	YELLOW

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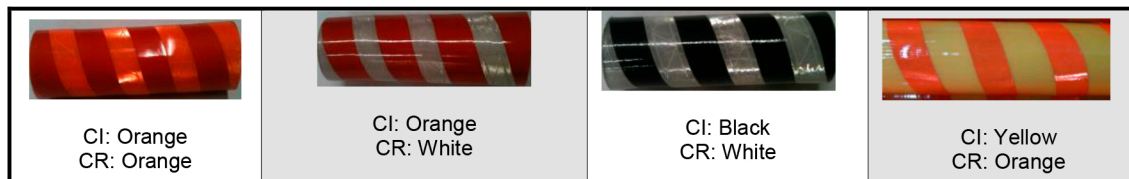
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Alternatives

Internal jacket color (CI)	Reflective tape color (CR)
Yellow	Yellow
Orange	Orange
Black	White
Red	--

Examples design



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