

## Type SHD-GC Three-Conductor

### Round Portable Power Cable, CPE Jacket 2kV

#### Applications

These heavy duty cables are designed for applications such as longwall shearers, continuous miners, loaders, drills, conveyors, pumps and mobile equipment where grounding conductors, a ground check conductor and metallic shielding are required.

#### Standards

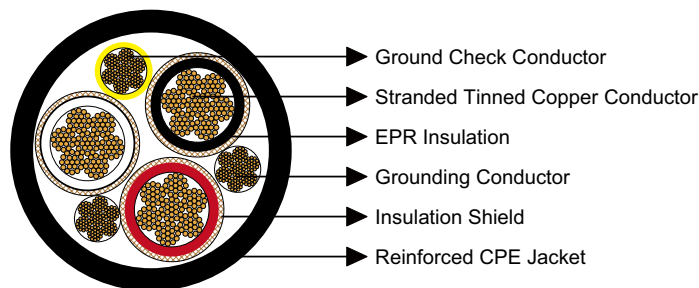
ICEA S-75-381/NEMA WC 58

ASTM B 172

ASTM B 33

CAN/CSA-C22.2 No.96

#### Construction



#### Conductors:

Stranded annealed tinned copper conductor.

#### Insulation:

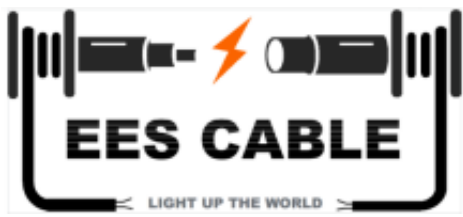
Ethylene Propylene Rubber (EPR).

#### Insulation Shield:

Tinned copper/textile braid.

#### Ground Check Conductor:

Tinned copper conductor with a yellow polypropylene insulation.



**Grounding Conductor:**

Tinned copper conductor.

**Jacket:**

Reinforced extra-heavy-duty Chlorinated Polyethylene (CPE), black.

**Options**

- Other jacket materials such as CSP/PCP/NBR/PVC/TPU are available upon request.
- Two-layer jacket with reinforcing fibre between the two layers can be offered as an option.

**Mechanical and Thermal Properties**

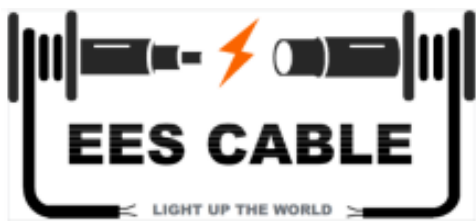
Minimum Bending Radius: 6×OD

Maximum Conductor Operating Temperature: +90°C

**Dimensions and Weight**

Construction	No. of Strands	Grounding Conductor Size	Ground Check Conductor Size	Nominal Insulation Thickness		Nominal Jacket Thickness		Nominal Overall Diameter		Nominal Weight		Ampacity
				inch	mm	inch	mm	inch	mm	lbs/kft	kg/km	
No. of cores×AWG/kcmil	-	AWG/kcmil	AWG/kcmil									A
3×6	133	10	10	0.07	1.8	0.155	3.9	1.29	32.8	1130	1682	93
3×4	259	8	10	0.07	1.8	0.155	3.9	1.40	35.6	1460	2173	122
3×3	259	7	10	0.07	1.8	0.170	4.3	1.51	38.3	1680	2500	140
3×2	259	6	10	0.07	1.8	0.170	4.3	1.59	40.4	1990	2961	159
3×1	259	5	8	0.08	2.0	0.190	4.8	1.76	44.7	2385	3549	184
3×1/0	266	4	8	0.08	2.0	0.190	4.8	1.86	47.2	2765	4115	211
3×2/0	329	3	8	0.08	2.0	0.205	5.2	2.00	50.8	3255	4844	243
3×3/0	418	2	8	0.08	2.0	0.205	5.2	2.13	54.1	3890	5789	279
3×4/0	532	1	8	0.08	2.0	0.220	5.6	2.31	58.7	4720	7024	321
3×250	627	1/0	6	0.095	2.4	0.220	5.6	2.51	63.8	5460	8125	355
3×300	741	1/0	6	0.095	2.4	0.235	6.0	2.68	68.1	6395	9517	398
3×350	888	2/0	6	0.095	2.4	0.235	6.0	2.81	71.4	7280	10834	435
3×500	1221	4/0	6	0.095	2.4	0.265	6.7	3.19	81.0	9820	14614	536

Ampacity-Based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381.



## Type SHD-GC Three-Conductor

### Round Portable Power Cable, TPU Jacket 2kV

#### Applications

These heavy duty cables are designed for heavy mobile equipment such as drag lines, shovels, dredges, drills and for power feeders.

#### Standards

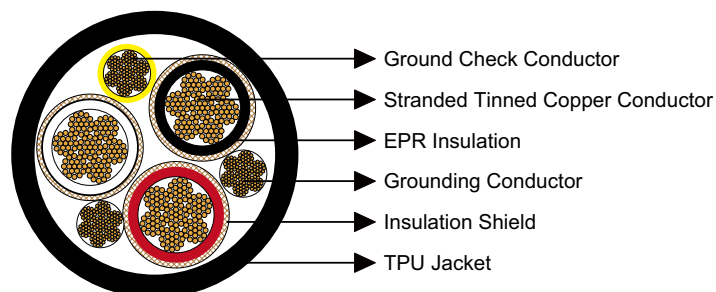
ICEA S-75-381/NEMA WC 58

ASTM B 172

ASTM B 33

CAN/CSA C22.2 No. 96

#### Construction



#### Conductors:

Stranded annealed tinned copper conductor.

#### Insulation:

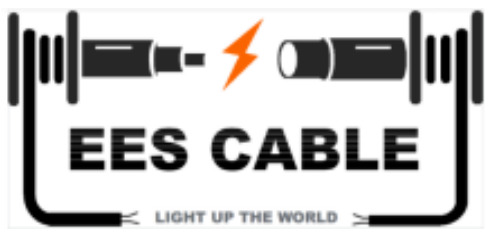
Ethylene Propylene Rubber (EPR).

#### Insulation Shield:

Tinned copper/textile braid.

#### Ground Check Conductor:

Tinned copper conductor with a yellow polypropylene insulation.



**Grounding Conductor:**

Tinned copper conductor.

**Jacket:**

Thermoplastic Polyurethane (TPU) Jacket, black.

**Options**

- Other jacket materials such as CPE/CSP/PCP/NBR/PVC are available upon request.
- Two-layer jacket with reinforcing fibre between the two layers can be offered as an option.

**Mechanical and Thermal Properties**

Minimum Bending Radius: 6×OD

Maximum Conductor Operating Temperature: +90°C

**Dimensions and Weight**

Construction	No. of Strands	Grounding Conductor Size	Ground Check Conductor Size	Nominal Insulation Thickness		Nominal Jacket Thickness		Nominal Overall Diameter		Nominal Weight		Ampacity
				inch	mm	inch	mm	inch	mm	lbs/kft	kg/km	
No. of cores×AWG/kcmil	-	AWG/kcmil	AWG/kcmil									A
3×6	133	10	10	0.07	1.8	0.155	3.9	1.29	32.8	1069	1590	93
3×4	259	8	10	0.07	1.8	0.155	3.9	1.40	35.6	1295	1927	122
3×2	259	6	10	0.07	1.8	0.170	4.3	1.59	40.4	1778	2645	159
3×1	259	5	8	0.08	2.0	0.190	4.8	1.76	44.7	2163	3218	184
3×1/0	266	4	8	0.08	2.0	0.190	4.8	1.86	47.2	2508	3731	211
3×2/0	323	3	8	0.08	2.0	0.205	5.2	2.00	50.8	3001	4465	243
3×3/0	418	2	8	0.08	2.0	0.205	5.2	2.13	54.1	3470	5163	279
3×4/0	532	1	8	0.08	2.0	0.220	5.6	2.31	58.7	4192	6237	321
3×250	627	1/0	6	0.095	2.4	0.220	5.6	2.51	63.8	5213	7756	355
3×350	888	2/0	6	0.095	2.4	0.235	6.0	2.81	71.4	6824	10153	435
3×500	1221	4/0	6	0.095	2.4	0.265	6.7	3.19	81.0	9014	13411	536

Ampacity-Based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381.