ICEA/NEMA MSHA two-conductor flat Type W mining cable

Flat Type W

2000 V MSHA Two-Conductor Shuttle Car Cable

ICEA S-75-381 / NEMA WC 58 · 2000 V · Two-conductor flat DC shuttle car mining cable



ICEA S-75-381 / MSHA | 2000 V 2/C Flat Type W | Integral-Web Lock

Application

Flat Type W 2000 V ICEA S-75-381 / NEMA WC 58 MSHA-listed two-conductor flat portable power cable for DC shuttle cars and roof bolters, with parallel rope-lay tinned copper cores, 90 °C EPR insulation, reinforcing braid and mold-cured CPE jacket.

Typical uses: Underground Coal & Hard-Rock Mining, Open-Cast Excavators, Draglines & Shovels, Vertical Mine Shafts, Hoists & Boreholes, Tunneling, Mineral Processing & Slurry Plants

Construction





Cross-section, not to scale

1. Parallel Conductors (2×2 AWG)
2. 90 °C EPR Insulation (Black & White)
3. Integral-Web Inner Jacket
4. Assembly Reinforcing Braid
5. Flat Outer Jacket (Mold-Cured CPE)

Technical data

Typical values

Rated voltage / transmission duty	2000 V (ICEA S-75-381 / NEMA WC 58 / MSHA)	**Core / conductor construction**	Parallel Conductors (2×2 AWG) — Rope-lay stranded annealed tinned copper (259 wires) + separator tape
Primary dielectric / buffering	90 °C EPR Insulation (Black & White) — High-dielectric ethylene propylene rubber phase insulation	**Continuous operating temperature**	-40 to +90 °C (mining & industrial service)
Short-circuit / peak thermal rating	Verified thermal stability per ICEA S-75-381 / NEMA WC 58 / MSHA	**Storage & transport temperature**	−40…+80 °C on export wooden/steel drum
Outer protection / armouring	Flat Outer Jacket (Mold-Cured CPE) — Extra-heavy-duty black crosslinked CPE flat mining jacket	**Minimum bending radius**	6 × OD
Crush, impact & abrasion duty	Heavy-duty mining rock-cut, impact and tensile protection per ICEA S-75-381 / NEMA WC 58 / MSHA	**Flame retardancy & mine fire safety**	Self-extinguishing / flame-retardant mining jacket per ICEA S-75-381 / NEMA WC 58 / MSHA
Mine water, oil & chemical resistance	Resistant to acidic mine water, hydraulic oils and abrasion per ICEA S-75-381 / NEMA WC 58 / MSHA	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	ICEA S-75-381 / NEMA WC 58 / MSHA		

Sizes

3 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Configuration	Core / stranding	Outer Ø ≈ mm	Net weight ≈ kg/km	Tensile rating kN ≈	Min. bend R mm
Flat Type W Construction Schedule (-40 to +90 °C) 3 sizes						
☐ **Flat Type W 2×4 AWG (17.5×33.0 mm)**	2 × 4 AWG Flat Twin	259-wire tinned Cu	33.0	1,340	8.4	200
☐ **Flat Type W 2×2 AWG (20.6×38.1 mm)**	2 × 2 AWG Flat Twin	259-wire tinned Cu	38.1	1,890	13.4	230
☐ **Flat Type W 2×1/0 AWG (23.6×44.5 mm)**	2 × 1/0 AWG Flat Twin	259-wire tinned Cu	44.5	2,680	21.3	265

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per ICEA S-75-381 / NEMA WC 58 / MSHA.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
2 × 4 AWG Flat Twin	0.86	2000 V (138 A)	-40 to +90 °C
2 × 2 AWG Flat Twin	0.55	2000 V (181 A)	-40 to +90 °C
2 × 1/0 AWG Flat Twin	0.34	2000 V (242 A)	-40 to +90 °C

– Every production length undergoes routine conductor DC resistance, high-voltage Spark/AC dielectric or OTDR continuity and dimensional verification.

Standards and approvals

- ICEA S-75-381 Compliant
- EN 10204 3.1 Factory Test Certificate
- CE, RoHS 2 (2011/65/EU) & REACH

Certifications

Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone
+86 185 9591 3361

Email
info@tebaoflex.com

Web
tebaoflex.com/cables/flat-type-w-2000v-msha-two-conductor-dc-shuttle-car-flat-mining-cable

Typical values for this cable type, based on ICEA S-75-381 / NEMA WC 58 / MSHA. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.