ICEA S-76-474 TRIPLEX XLPE SERVICE DROP

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ICEA S-76-474 600 V Aluminum XLPE/ACSR Overhead Triplex

ICEA S-76-474 / ANSI/ICEA · 600 V · −40…+90 °C industrial TRIPLEX XLPE SERVICE DROP



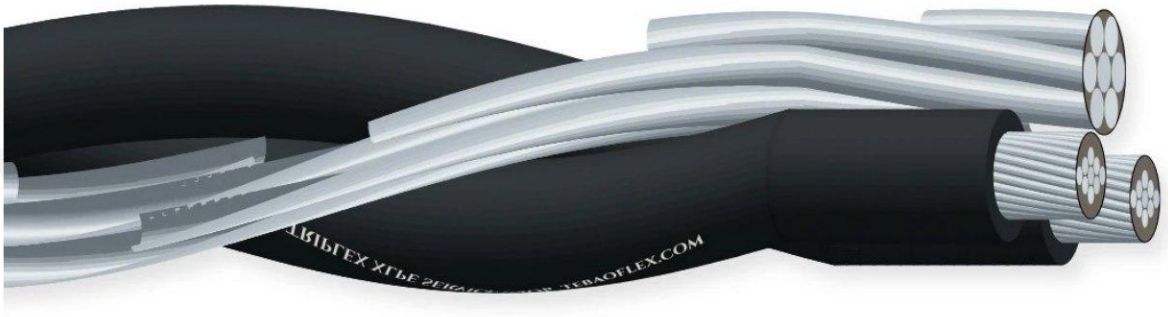
ICEA S-76-474 / ANSI/ICEA | 600 V | −40…+90 °C

Application

ICEA S-76-474 600 V Aluminum XLPE/ACSR Overhead Triplex Service-Drop Cable engineered to ICEA S-76-474 / ANSI/ICEA for 600 V service across −40…+90 °C, featuring stranded aluminum conductor and xlpe core insulation with minimum bending radius 10 × OD.

Typical uses: Commercial & Residential Building Distribution, Data Centers & Public Infrastructure, Fire-Safe Evacuation & Riser Shafts, Industrial Plant Balance-of-Plant Wiring

Construction





Cross-section, not to scale

1	Stranded aluminum conductor	ICEA S-76-474 / ANSI/ICEA
2	XLPE core insulation	ICEA S-76-474 / ANSI/ICEA

Technical data

Typical values

Rated voltage / duty	600 V (ICEA S-76-474 / ANSI/ICEA)	**Conductor construction**	Stranded aluminum conductor — High-conductivity aluminum conductor per ICEA S-76-474 / ANSI/ICEA
Primary insulation / dielectric	XLPE core insulation — Extruded XLPE dielectric (individual core / group layer)	**Continuous operating temperature**	−40…+90 °C per ICEA S-76-474 / ANSI/ICEA
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s adiabatic limit depending on dielectric class)	**Minimum installation temperature**	−5 °C (thermoplastic) / −25 °C (cross-linked or elastomer) / −40 °C (metallic)
Outer protection / covering	XLPE core insulation — Extruded XLPE dielectric (individual core / group layer)	**Minimum bending radius**	10 × OD (installed / static routing)
Layer count & geometry	2 concentric/structural layers verified by cross-section inspection	**Environmental & chemical durability**	Engineered for industrial service in accordance with ICEA S-76-474 / ANSI/ICEA
RoHS & REACH compliance	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant	**Standards**	ICEA S-76-474 / ANSI/ICEA

Sizes

10 standard constructions

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

Order designation	Nominal area	Stranding	Outer Ø ≈ mm	Weight ≈ kg/km	Rated tensile kN ≈	Min. sheave R mm
TRIPLEX XLPE SERVICE DROP Standard Transmission & Distribution Schedule (−40…+90 °C) 10 sizes						
☐ **TRIPLEX XLPE SERVICE DROP 50 mm²**	50 mm²	7/3.00 mm	9.0	138	14.5	180
☐ **TRIPLEX XLPE SERVICE DROP 95 mm²**	95 mm²	19/2.52 mm	12.6	262	28.2	252
☐ **TRIPLEX XLPE SERVICE DROP 120 mm²**	120 mm²	19/2.85 mm	14.3	334	36.4	286
☐ **TRIPLEX XLPE SERVICE DROP 150 mm²**	150 mm²	26/2.70 + 7/2.10	17.1	546	53.8	342
☐ **TRIPLEX XLPE SERVICE DROP 185 mm²**	185 mm²	26/3.00 + 7/2.33	19.0	674	65.2	380
☐ **TRIPLEX XLPE SERVICE DROP 240 mm²**	240 mm²	26/3.44 + 7/2.68	21.8	885	84.5	436
☐ **TRIPLEX XLPE SERVICE DROP 300 mm²**	300 mm²	26/3.86 + 7/3.00	24.5	1,110	104.2	490
☐ **TRIPLEX XLPE SERVICE DROP 400 mm²**	400 mm²	54/3.08 + 7/3.08	27.7	1,432	126.0	554
☐ **TRIPLEX XLPE SERVICE DROP 500 mm²**	500 mm²	54/3.44 + 7/3.44	31.0	1,790	156.5	620
☐ **TRIPLEX XLPE SERVICE DROP 630 mm²**	630 mm²	54/3.86 + 19/2.32	34.8	2,245	194.0	696

– Custom kcmil/code-word sizes, grease-filled corrosion protection and non-specular surface finishes available per ICEA S-76-474 / ANSI/ICEA.

DC resistance & continuous current ratings

6 sizes

Nominal area	Max. DC R_{20} Ω/km	Continuous current A ≈	Operating temp.
50 mm²	0.578	210	−40…+90 °C
95 mm²	0.304	320	−40…+90 °C
150 mm²	0.192	435	−40…+90 °C
240 mm²	0.119	590	−40…+90 °C
400 mm²	0.072	820	−40…+90 °C
630 mm²	0.046	1,080	−40…+90 °C

– Ampacity calculated per IEEE 738 (0.6 m/s wind, 40 °C ambient, 0.5 solar absorptivity / emissivity).

Standards and approvals

- ICEA S-76-474 Compliant
- EN 10204 3.1 Routine 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/triplex-xlpe-overhead-service-drop-cable

Typical values for this cable type, based on ICEA S-76-474 / ANSI/ICEA. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.