

OLEX-RENEWABLE

WHOLE OF LIFE OPTIMISATION



NEXANS OLEX KEY OBJECTIVES IN SERVICING RENEWABLE ENERGY MARKET

We provide innovative solutions to optimize return on investment while minimising operational risk. This is delivered via 3-step offering:

1. Full Scope Supply Solution

Full Range of Wind and Solar Collector Cables, Wind Tower Cables, Solar PV cable Harnesses and Accessory Supply that best complies with local standards, project specification, and is supported by rigorous quality, technical, logistics management processes and resources.

Wind Farm - MV Cables to AS/NZS 1429.1, 1C, 3C Triplex, 3.8/6.6KV to 19/33KV, Nylon, Double Brass Tape or EcoTerm termite protection and water blocking (linier and radial). LV Tower to Kiosk preassembled leads to AS/NZS 5000.1 plus a full range of Nexans Windlink tower cables.

Solar Farm - PV cables 4mm² to 10mm² to IEC 62930 & EN 50618, Underground LVDC cables to AS/NZS5000.1, under array LVDC bus cables to IEC 62930 & EN 50618. MV Cables to AS/NZS 1429.1, 1C, 3C Triplex, 3.8/6.6KV to 19/33KV, Nylon, Double Brass Tape or EcoTerm termite protection and water blocking (linier and radial).

2. Optimized System Design Solutions



Wind

The Nexans Group have the resources and experience to provide MV wind farm turbine collector system designs that optimise CAPEX & OPEX costs whilst utilising the full range of supply and unique componentry offering.



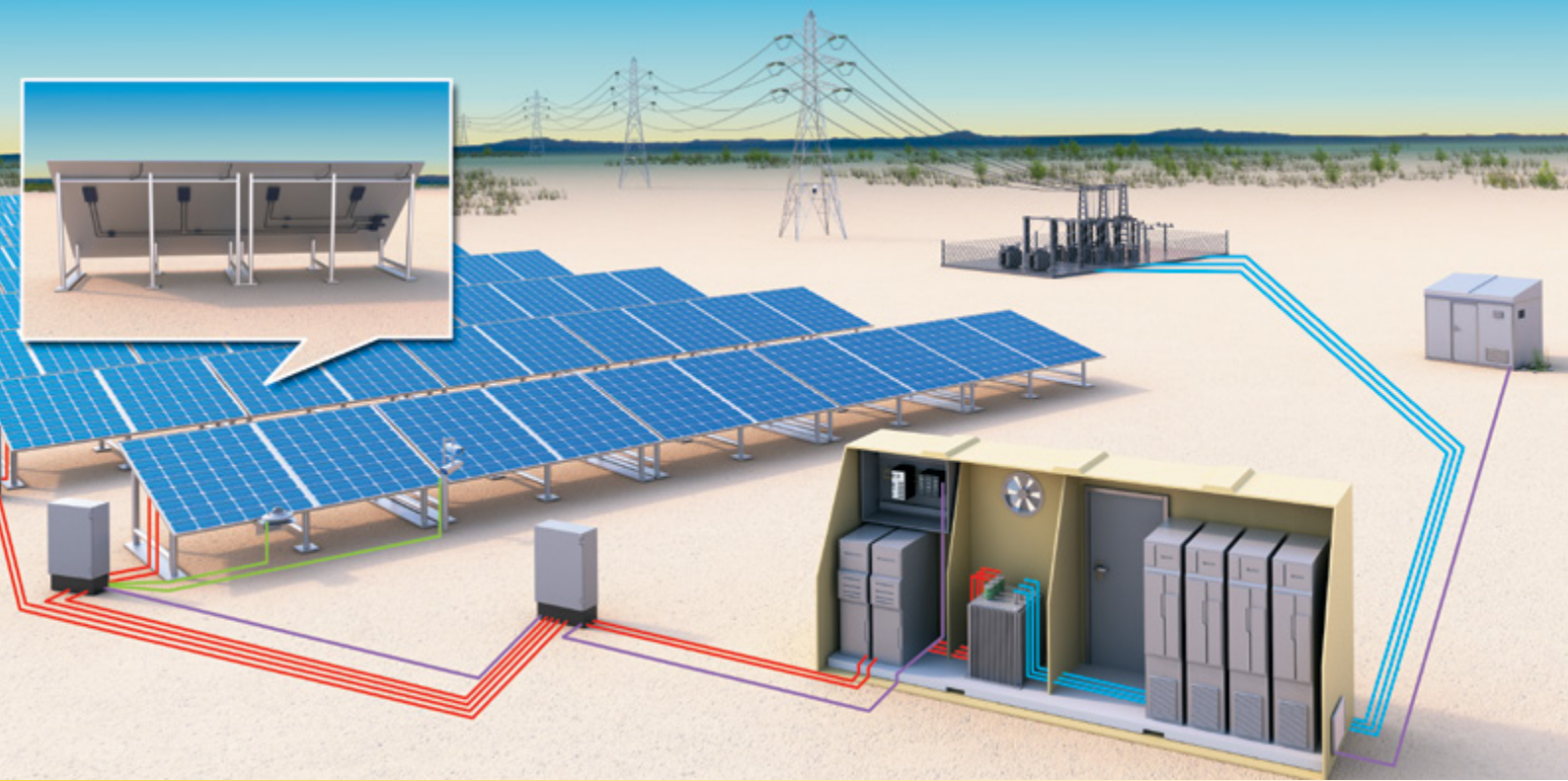
Solar

The Nexans Group have the resources and experience to provide under array PV cable and harness system design along with underground LVDC cable system design and MV inverter collector system designs that optimise CAPEX & OPEX costs whilst utilising the full range of supply and unique componentry offering.

3. Full Scope Installation of Optimised Design Solution

Nexans Olex have a highly experienced Project Services Group with more than 30 years' experience in designing and managing turnkey cable projects throughout the APAC region. The Nexans Olex Project Services Group offer a full turnkey supply and install scope covering optimised cable and system design for MV cable collector systems with a system warranty.

The goal is to optimise trench and cable length whilst eliminating joints. To achieve this the Nexans group have developed a competency hinged on a consortium with Tesmec who specialise in continuous mechanical laying of extralong cable lengths and in trefoil configuration.



SOLAR FARM

KEYLIOS[®] Australia

- Full range cable supply offer – Photovoltaic Strings, Underground and Under-array 1,500/1,800 DC, Medium Voltage 1C & 3C, LV Power, Fiber Optic, Data, Control and Earth
- Full range of accessories, MC4, LV Connectors, LV Terminations, MV Connectors, MV Terminations, MV Underground Jointing and Transition Cabinets
- Patented “EcoTerm” Termite Barrier for all Cables (economical, tight bend radius, 35 year design life)
- Advanced supply chain solutions managed from factory direct to site. (right drum on the right day/hour)
- Australian Standards and Installation Environment Advice and Compliance
- Photovoltaic Under-Array and Underground DC Collector System Design Optimization
- MV Collector System Design Optimization
- Factory Fitted and Tested Harness Assemblies
- MV Collector System Turnkey Installation and Testing (system warranty).

Accessories

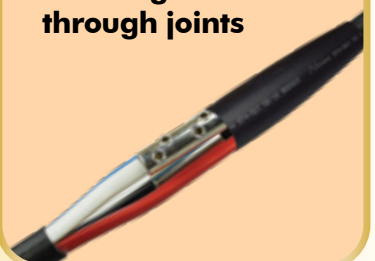
MC4 connector



D series lugs



Heat-shrinkable LV straight through joints



1 AND 3 CORE UNDERGROUND DISTRIBUTION CABLE

Construction

1 or 3 core; stranded compacted aluminium conductor; TRXLPE insulation, copper wire metallic screen, with composite PVC EcoTerm (optional) and HDPE protective oversheath

Standards

AS/NZS 1429.1

Voltage Rating

3.6/6.6kV up to 19/33kV



SINGLE CORE UNDERGROUND LVDC COLLECTOR CABLE

Construction

Single core; stranded aluminium conductor; XLPE insulation with HDPE protective oversheath.

Standards

AS/NZS 5000.1,

IEC 62930

Voltage Rating

1500/1800v DC



PV CABLE

Construction

Single core, tinned copper cables 4mm², 6mm² and 10mm². Support with fully tested harnesses (optional).

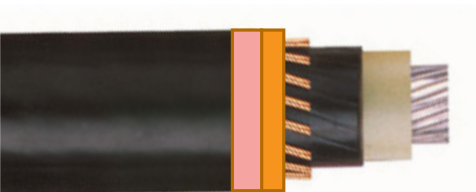
Standards

IEC 62930, EN 50618

TUV Certified

Voltage Rating

1,500VDC & 1,800VDC



All Nexans Olex underground cables can incorporate EcoTerm termite barrier. Offers 30 year design life.

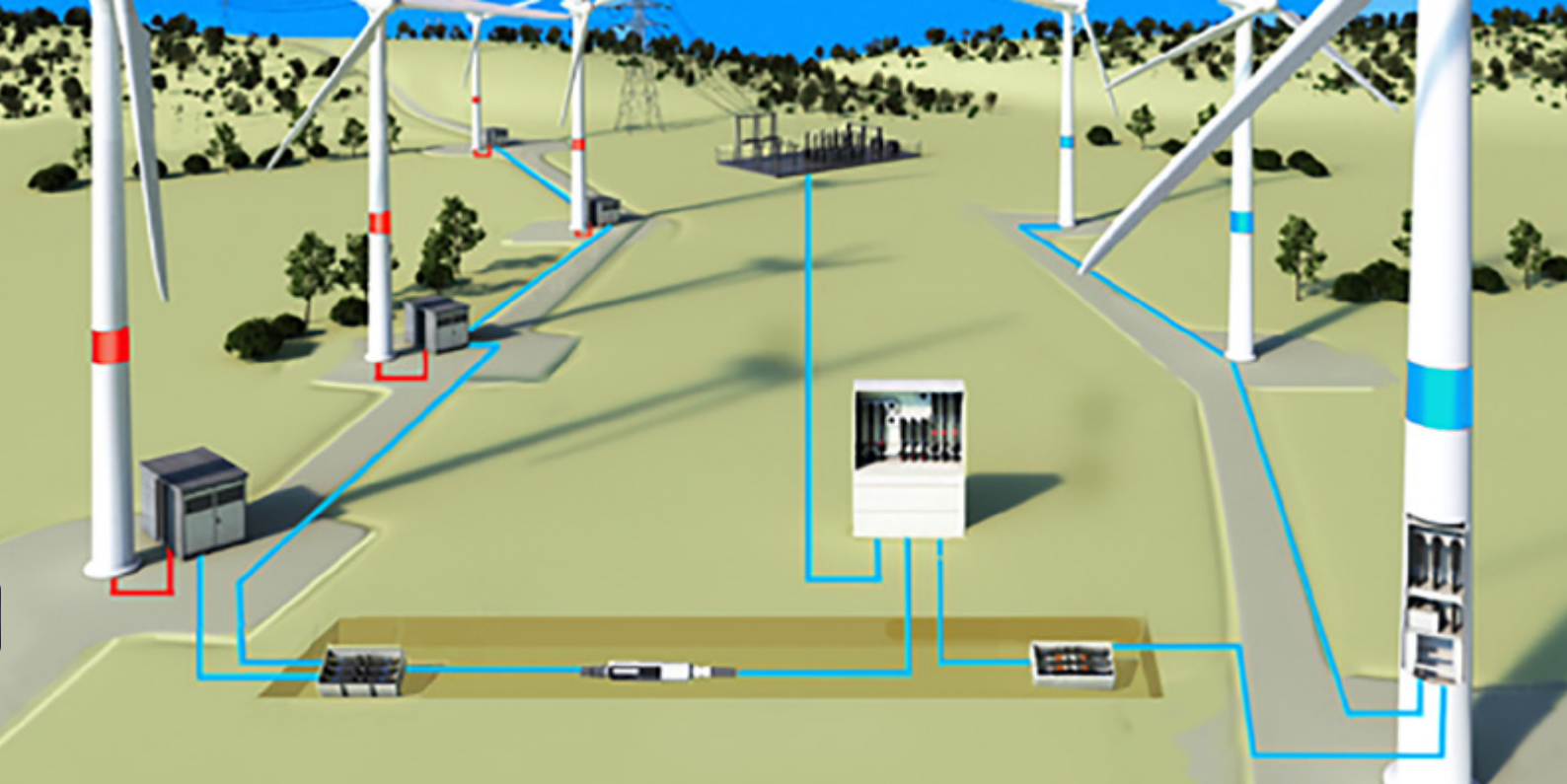
EXTRA LONG CABLE LENGTH

1C 33kV Cable Maximum Drum Lengths and Drum Size

Conductor size mm ²	Max. drum length metres	Cable drum size & weight
300	4,000	3.3m dia x 2.2m wide x 12.7 tonne
400	3,800	3.3m dia x 2.2m wide x 13.4 tonne
500	3,500	3.3m dia x 2.2m wide x 14.2 tonne
630	3,200	3.3m dia x 2.2m wide x 15 tonne
800	2,800	3.3m dia x 2.2m wide x 15.2 tonne
1,000	2,300	3.3m dia x 2.2m wide x 15 tonne
1,200	2,000	3.3m dia x 2.2m wide x 14.8 tonne

3C 33kV Cable Maximum Drum Lengths and Drum Size

Conductor size mm ²	Max. drum length metres	Cable drum size & weight
300	1,400	4.1m dia x 2.2m wide x 12.7 tonne
400	1,300	4.1m dia x 2.2m wide x 14.8 tonne
500	1,050	4.1m dia x 2.2m wide x 14.2 tonne



WINDLINK[®] Australia

WIND FARM

- Full range cable supply offer –Underground Medium Voltage 3C & 1C, LV Power, Fiber Optic, Data, Control and Earth
- Full range of accessories, MV Terminations, MV Underground Jointing and Transition Cabinets, LV Connectors, LV Terminations
- Patented “EcoTerm” Termite Barrier for all Cables (economical, tight bend radius, 35 year design life)
- Advanced supply chain solutions managed from factory direct to site. (right drum on the right day/hour)
- Australian Standards and Installation Environment Advice and Compliance
- MV Collector System Design Optimization
- Factory Fitted and Tested LV Kiosk Leads
- MV Collector System Turnkey Installation and Testing (system warranty)

Accessories

Underground Junction Chamber



Separable Connector and Coupling



Slip-on Termination



Obs: All this accessories can be used on solar farm as well.

Trusted by Australians for over 75 Years

Nexans Olex is Australia's leading cable manufacturer with over 75 years of success in servicing the Australian markets.

With a long standing reputation and excellence in delivering world-class cable design, engineering solutions and manufacturing excellency, Nexans Olex cables meet and exceed the relevant Australian and International Standards. With a rich history at its core, Nexans Olex draws on global parentage to lead the electrical industry through technical innovation, quality and industry stewardship.

Nexans Olex specialises in delivering cables and cabling solutions to major industries including Building and Construction, Energy Resources, Infrastructure, Renewable Energy and Electricity Supply Industry (ESI).

**For more information, please
contact Olex Technical at olex.technical@nexans.com**

Call 1300 CABLES or visit www.nexans.com.au

TrustOlex.

**WE DELIVER THE BEST SOLUTIONS
TO SUPPORT YOUR PROJECT NEEDS**

