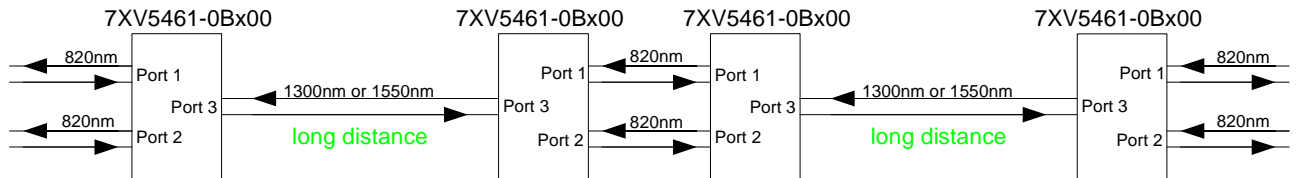


**Extension of Fibre Optic Connection via 7XV5461**

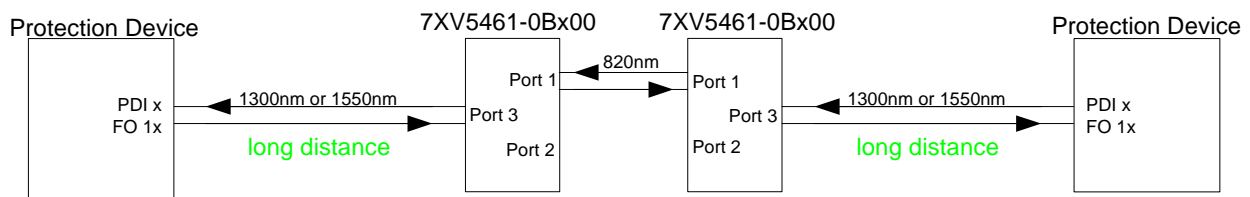
**Scope: How to extend a Fibre optic connection via 7XV5461**

The Fibre Optic Repeater 7XV5461 has the capability to communicate via Single-Mode-Fibre (SMF) over a distance 100km, without having any repeater in between. Nevertheless this is not sufficient for some applications. The signal can be extended by placing a pair of 7XV5461 into the communication path. This may be done up to 4 times on a single link. The following sketch shows the principle.



The Fibre Optic Repeater connected to port 3 must be matching, pair wise they may be different. The repeating is done with the two Ports in the middle (Port 1 and Port 2 - 820 nm -).

The Fibre Optic Repeater can also be used for repeating a single Protection Data Interface, PDI, of a protection device (7SD610/7SD52/7SD53/ 7SA6 with PDI and 7SA522 with PDI)



In this application only Port 1 is needed between the Fibre Optic Repeaters. The PDI of the protection device and the Port 3 interface of the Fibre Optic Repeater must be matching.

The following table shows which PDI matches to which Port 3 interface of the Fibre Optic Repeater.

Name	Protection Device Order Code Device	FO Module Order Code single Module	Order Code Fibre Optic Repeater	Transmission length
FO 17	+M xG (+N xG)	C53207-A351-D655-1	7XV5461-0BG0	24 km
FO 17	+M xG (+N xG)	C53207-A351-D655-1	7XV5461-0BH0	24 km
FO 18	+M xH (+N xH)	C53207-A351-D656-1	7XV5461-0BG0	24 km
FO 18	+M xH (+N xH)	C53207-A351-D656-1	7XV5461-0BH0	60 km
FO 19	+M xJ (+N xJ)	C53207-A351-D657-1	7XV5461-0BJ0	100 km